A project report on

Services Orientation And Infrastructure Distribution

Submitted in partial fulfilment of the requirement
For the award of the degree

MASTER OF COMPUTER APPLICATIONS
Of

Visvesvaraya Technological University
Belgaum, Karnataka
By

ARUN R

1CY18MCA52

CMR INSTITUTE OF TECHNOLOGY
132, IT Park Road, Kundalahalli, Bangalore-560037
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Under the guidance of

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CMR INSTITUTE OF TECHNOLOGY
132, IT Park Road, Kundalahalli, Bangalore-560037 **2019-2020**

CMR INSTITUTE OF TECHNOLOGY

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Bangalore - 560 037

CERTIFICATE

This is to certify that the project work entitled

Services Orientation And Infrastructure Distribution

Submitted in partial fulfilment of the requirement for the award of the degree of Master of Computer Applications of the Visvesvaraya Technological University, Belgaum, Karnataka bonafde work carried out by

ARUN R

1CY18MCA52

during the academic year 2019-2020.

Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
Ms. Moumita Roy	**Ms. Gomathi.T**	**Dr. Sanjay Jain**
Associate Professor, MCA Dept.	HOD, MCA	PRINCIPAL, CMRIT

External Viva

Name of the Examiners — Signature with date

1.

2.

Certificate

aero

CERTIFICATE

This is to certify that the project titled "Service orientation and infrastructure distribution" is submitted to aero software's in fulfillment of the requirement for the final semester degree of MCA from CMRIT, Bangalore. The project is a bona fide record at work carried out by Mr. Arun R (1CY18MCA52) under the supervision and guidance of Mr. Aryan, IT Project Head, aero software's, Bangalore between the periods from 23/12/2019 to 30/5/2020.

The source code of the Project and executable file setup is not issued to the trainee as per the policy of the company.

Best Regards,

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DECLARATION

I, **Arun R ,** student of 6th MCA, **CMR Institution of Technology**, bearing the USN **1CY18MCA52**, hereby declare that the project entitled **"Services Orientation And Infrastructure Distribution"** has been carried out by me under the supervision of External Guide **Mr. Aryan,** Technical Manager**,** and Internal Guide **Ms.Moumita Roy**, Associate Professor**,** Dept of Master of Computer Applications and submitted in the partial fulfilment of the requirements for the award of the Degree of Master of Computer Applications by the **Visvesvaraya Technological University** during the academic year 2019-2020.The reports has not been submitted to any other University or Institute for the award of any degree or certificate.

Place: Bangalore ARUN R

Date: (1CY18MCA52)

ACKNOWLEDGEMENT

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I offer my special thanks to my external project guide Mr. Aryan, Technical Manager, Aero Software Pvt. Ltd., Bangalore, and to my Internal Project guide Ms. Moumita Roy, Associate Professor, Department of MCA, CMRIT, Bangalore without whose help and support throughout this project would not have been this success.

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1. INTRODUCTION

1.1 PROJECT DESCRIPTION

Real time streaming from a single system based on different types of customized requirements and related functionalities are provided from the service platform which is designed is important because, the referential login activities can be performed whenever it is required. Multiple types of consideration that are related with the identification of the changes can be properly summarized with the help of the system because a detailed section related to customization is provided with multiple types of category, where all types of residential design can be properly established. The system provides educate support that is required for the residential designs so users can easily design the considerations.

Types of references that are provided can be utilized for designing any type of functional requirement based tools, with the help of the system so any type of organization can utilize the system and can have detailed design for session based of any type of functional requirement they have. Elaborated references of the design in terms of security implementation is also included, so when a particular reference is designed on what type of security is need it can be properly established with the help of multiple collective options that are included within the system based on accessibility and references of data.

System is also incorporated with multiple types of conditional usage. The designs which are provided so for example- if the related interface design is required to be acknowledged multiple types of self-design provisions are provided. At the same time multiple examples are also provided which can be reused. Multiple types of references based on the data set modifications and Designs are also included, so that any type of design perception that is undertaken can be properly associated with the data structure. The design considerations are associated in a way that all types of prospective understanding can be properly established in there should be no confusion.

The system is also incorporated with multiple types of inbuilt references, Which is based on different functionality which is again categorized for the usage. The categories will be browsed multiple third party vendors will be provided in according to the requirements the vendor to can be selected in can be added. The entire vendor to selected and added it can be referenced with detailed acknowledgement of working in this will help the users to associate the related work provisions

properly. Multiple considerations are associated and these considerations are associated in such a way that perspective can be properly optimized.

Consideration of the usage will be properly allocated with different types of regulations and multiple types of workability have to be acknowledged and the workability will be done by different types of associated users who will be added. Multiple types of users can be acknowledged on the system so that they can perform different types of activities and each user will be provided with collaborated workability so that multi operations in a synchronized manner can be performed.

According to the trade requirements the related references will be designed for that all types of associated working domains, they are also acknowledged or we can say that all types of associated references are provided so that any type of organization can make use of the system based on service. Multiple references are included so any type of related usability that is required, that can be done and at the same time if simultaneous probability is required to be established it can be done through the system. Multiple types of considerations based on the relative platform integration is also provided so any type of residential design required to be transferred can be properly undertake, where the system provides multiple types of settings and these settings can be utilized to transfer the design.

Figure 1.1 - Selections of different consideration is shown in the above diagram

All types of design perception that are acknowledged will be provided with different types of configuration setups so that it can be allocated to other users for related the workability. Global accessibility is also provided within the system and all types of stabilized features for the up gradation is included so any user who is using the system can upgrade to the workability is any time required. The system is also included with brand perceptions because individual vendors integration is provided so when the clients will be using the related vendor utility is it can be a reference that if

they require any type of modification and customization it can be organized. All types of references that are inclusive for the related customization provisions will be acknowledge so that individual accounts and the related frames can be set up with the perception required. Consolidation of the working is also support which is quite important multiple type of task performed from Windows for making it more collaborative and usable.

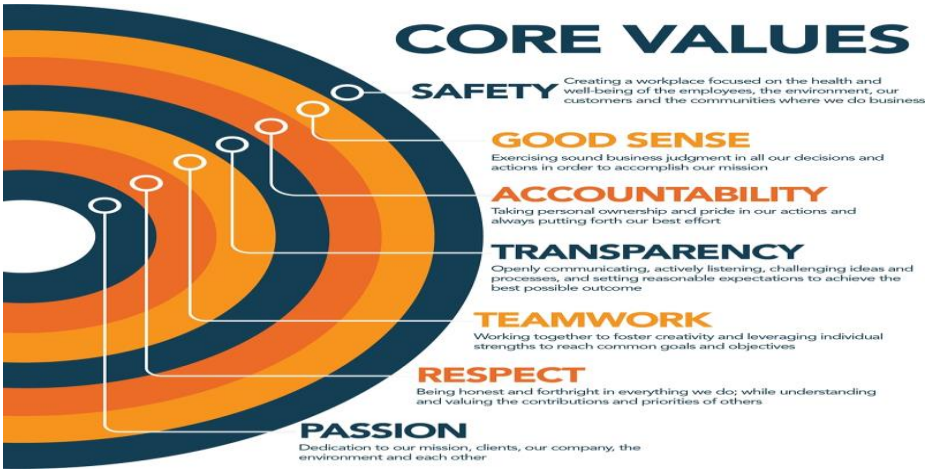
1.2 COMPANY PROFILE

Aero

Profile

Established in 2011 the company provides Global Services in terms of various custom built platforms and other professional software's. The framework that is required to be structured will experience various arranging and arrangements inquire about with significant insights, so the references are required and it appropriately accomplished. The framework gives business work stages to different associations on the server space this which can be utilized for various exercises. The organization assists with augmenting and quickens the intensity of handling with the innovative incorporations and with astute plan references that will be given to the clients.

Numerous distributive utilities that are intended for various impression of working encourage the associations worldwide to discover their work appropriately regarding distinctive area. To give high conveyance administrations and to keep up the best possible commitment the organization is related with various assistance,advancements at the maintenance and commitment exercises will be on the customary premise to get the required for refreshes so more refreshed renditions of working stages can be given.



Our Mission

Trust

Quality

Imagination, advancement and activity

Responsibility

A moral approach

Center Values

Services

Custom programming advancement

Facilitating administrations

Businesses

Counseling

Capacity administration

Board Association

Review

2. LITERATURE SURVEY

2.1 Existing system

Multiple drawbacks are associated with the existing system working because when we have tried to establish the related problems, we found that multiple types of customization workability and configuration problems are being acknowledged. Different types of organizations are having different types of requirements based on the workability, tools and based on the workability regulations so the organizations are facing lots of problems in terms of the related work references. which makes the overall working very much expensive and even all types of work references are required to be acknowledged on the individual references making it more complicated.

Some of the major problems that has been referenced in the existing system is listed as following -

- In the existing system resource allocation and the custom utility provisions is not supported and makes it quite difficult for the companies to utilize the references that is related with multiple third party variation as lots of investment anconfiguration is required.
- In the existing system even the referential requirement of different types of custom orientation which is needed by the organization to acknowledge different types of work references is also not supported or we can say that any type of customer requirements are required to be individually organized with the help of third party vendors.
- In the existing system we have also acknowledged that system for multiple types of workability based on customizations or usage of different types of shelf resources is not provided so all the related considerations are required to be organized by the company themselves.
- In the existing system event is found that the reusability based on designing is not supported so there is no mechanism that reusable components are provided and accordingly the considerations can be utilized and used.
- Customization based on branding is not provided or we can say that any type of reference tool that is utilized cannot be modified in terms of views and other considerations.
- In the existing system even the related sharing concepts are quite difficult so if a particular tool has to be shared through a different network it has to be included with different types of configuration setups.
- Database structuring is also difficult in existing system and for a predefined utilities the related structure in is not possible which is also very much difficult because at different variations the required data set provisions are needed to be changed.

Proposed system

Propose system references are quite generic in nature so that any type of domain organizations can utilize it all types of referential workability, that is needed is provided on a single system where the main aim is to provide the referential customization and usage and even different types of reference tools that are based on third party vendors for the utilization. The propose system provides multiple types of references of design and reusability also which makes it more interesting for the usage.

Some important references of the proposed system is listed as following-

- For any type of resource allocation and for any type of related customization a single system can be utilized which is very much cost effective because any type of consideration required for different types of operational workability can be directly associated through the system.
- All types of customized references can be self-undertaken with the help of the system design formation option where all types of related identity is needed for the design perception is included so multiple categories can be selected and accordingly the design perceptions can be undertaken.
- Self-resources are provided which will be important for any type of organization because they will be having multiple types of choices and does not require any type of configuration status and each resource can be directly selected and utilized from the platform.
- Multiple types of reusability formations are provided within the system so that the working can be fast multiple associated designs are provided which can be directly included with the references of design formation.
- All types of brand perceptions and customization for the view of the frame workability is also provided which will be useful as all types of references need it is provided and supported so any type of organization using the system can branded according to their requirements in the proposed system.
- Multiple types of sharing references are also included in the proposed system these entire sharing professor will be self-guided and any type of design perception required to be shared and used can be properly included.
- All types of database structure it is also supported in the system so any references of the data structure required can be proper acknowledge. System provides multiple variations which can be selectively utilized for different types of data structure in concept implementation.

2.2 Feasibility study

Feasibility references are acknowledged in a way that all types of Planning can be done properly and the feasibility understanding also provides us a detailed documentation, where we can identify the related resource requirements and different types of financial requirements and even the considerations of the operational requirements.

Technical requirement

Operational feasibility

Economic feasibility

Figure 2.1 - Shows the feasibility study

2.2.1 Technical feasibility

Technical references are required to be acknowledged first because the system design and development is associated with all types of features that has to be properly acknowledged for which we have to properly elaborate different types of processes that will be involved and how the technology will help us to design the related references.

All types of related customization possibilities will be undertaken because when they related referential categories are provided it has to be check that how the drafted structuring can be formulated.

Multiple types of references based on usability will be also checked because different types of vendor tools are provided and each when the tool should be properly established with all types of configuration needs on to the accounts of the clients.

All types of design and development resources we provided to the users within the company environment and all types of guidelines will be specified.

2.2.2 Operational feasibility

Operational considerations are required to make the users understand that how the system can be utilized and as the usability will be define it will be better for the working references to be established properly.

All types of concentration based on different types of document provision will be also associated because the users will be provided with different types of document references.

All types of conditional working that is required to be generated based on different references of training will be also associated as the related references of in house training will be provided to the users.

2.2.3 Economic feasibility

Economic references are based on the requirements of cash understanding to the financial department will be making different types of plans and Statistics so that we can understand that how the cash requirements will arise.

Multiple types of economic considerations and scenarios will be also discussed because we have to check that how the company can handle different types of address in areas that may arise in the future.

2.3Tools and technology

JAVA

We are using Java Technology because it is having multiple significant advantages over the other languages and it is also different types of environment. The major references of the Java language is It is object oriented.

Platform independent so it can be easily transferred.

Even the compilation the writing and debugging of the language is easier to understand.

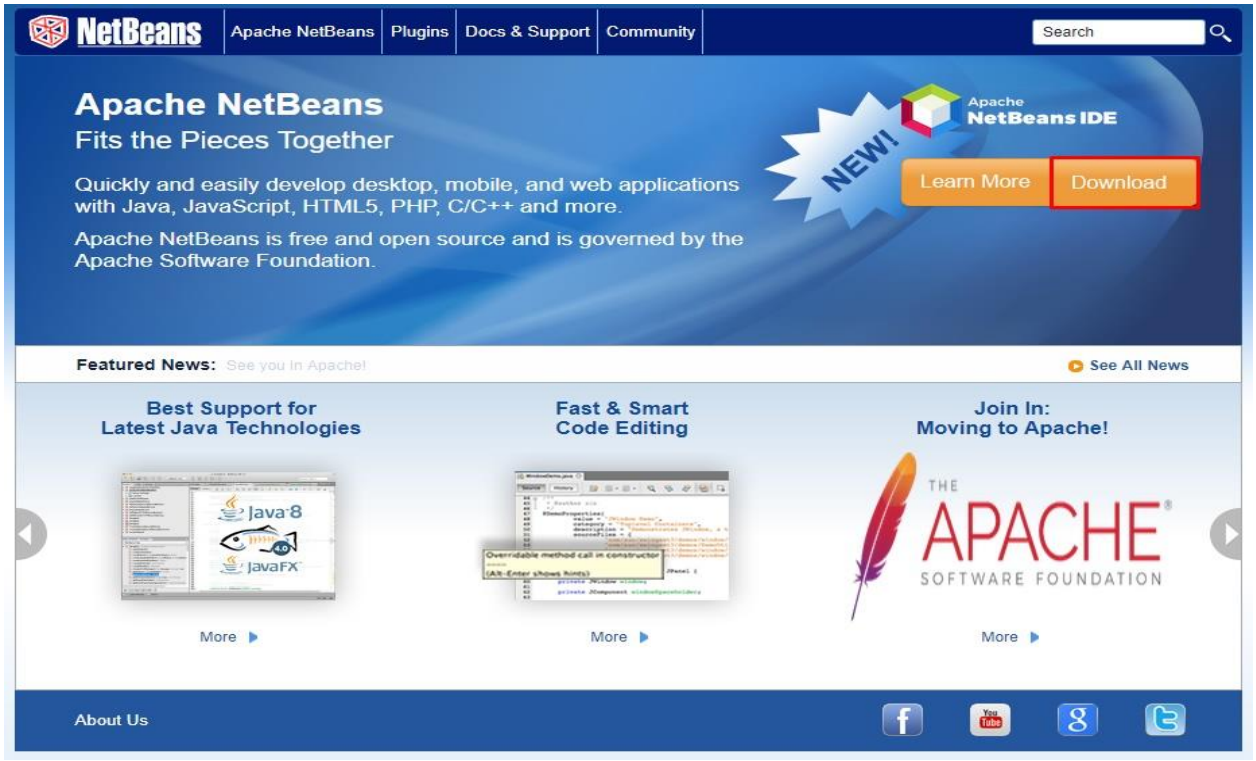
Rich API for the application development is provided and various types of communication among various activities like networking utility and database references can be properly generalized.

It also supports multithreading so that several task can be organized in parallel.

Distributed computing is also properly in hand with the help of Java, even the networking references can be properly associated with secured integrations.

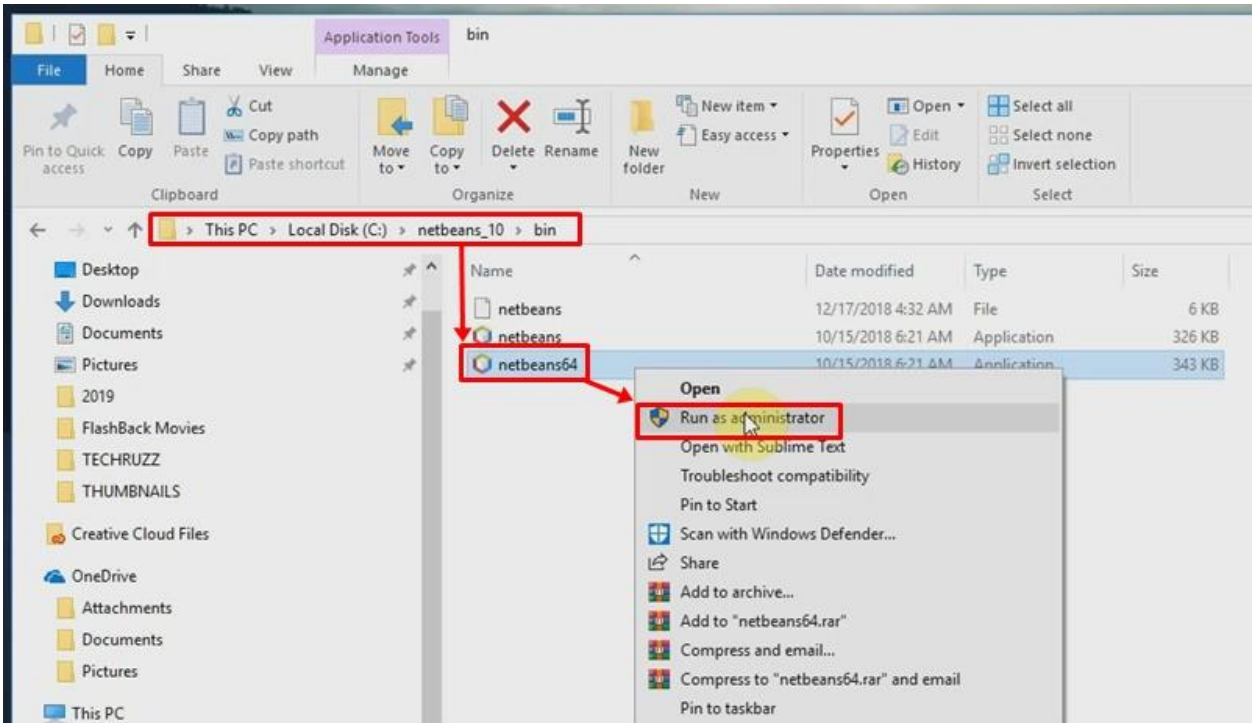
2.4 NetBeans 10 Installation

Go to https://netbeans.org to download Apache NetBeans 10 then click on the download button as shown below-



Download

Download NetBeans



SQL

- Retrieval for large amount of records can be efficiently and quickly managed.
- Most references of the database system can be managed without writing the substantial amount of courts.
- All types of standards are being adopted.
- Multiple data view can be structure.
- Supports client server architecture..
- More interactive in terms of getting the references.
- Open source and portable that provides the flexibility of usage.

2.5 HARDWARE AND SOFTWARE REQUIREMENTS

Software requirements

Databases

MySQL 8.0..3

Technology

Hybrid cloud (implementation).

Platform

Windows

Languages

JAVA (J2EE, JavaScript, JSP)

Integrated development environment

NetBeans/ Eclipse

Supporting Server

Apache Tomcat 8, SSD cloud server, Amazon s3

Hardware requirements

- Computer processor : Intel core i3
- Clock speed : 1.4 GHz
- Hard Disk Space : 500 GB
- RAM : 4 GB

3. SRS

Users

Control administrator-

The reference of usability which is required to be added and established will be provided by the control administrator and according to the work requirements different types of working hierarchies based on groups and users will be established.

Associates-

The Associates are the people those who will be provided with different types of guidelines so that they can perform different types of working references of the related work customization designs and different types of operational work.

Assumptions and dependencies

Assumptions is that user should have the knowledge of related database structuring and different references of design structuring plus even for the integrated resource usage the related knowledge is needed so we can say that user should be added with proper knowledge.

The major dependency of the system is to incorporate multiple types of references from a single system,which requires the inclusion of dependent consideration or we can say that all the users are required to log into the system to perform different types of activities.

Scope and objective

Scope that has been considered as the usability multi references by the users where customization is also support it and even different types of direct usability is also supported so this makes a cost effective variation,that can be utilized whenever needed for different aspects by the companies.

The objective of the system is to provide shelf working where all types of shelf resources are provided and all types of shelf customization is provided. The references of workability is provided on a single system which can be effectively utilized.

Problem statement

Problem statement for the system is that the acknowledgement of design provisions that are required is quite Complex because categorical elements are required to be provided where the users will be guided performing the design activity.

The usability of different resources is also quite difficult because the aspect of usage and the regulations of usage will be different from one account to another account.

The consolidation of the working and the requirements of sharing and transfer is also required to be checked which will be difficult to provide the compatibility in different references of working.

3.1 Functional requirement

Functionality are required to be properly checked as we have to provide multiple types of custom variations so how the related categories will be working and how the related processing will the undertaken by the system will be established. Audit held table base documentations will be prepared and will be provided with associated reference of knowledge.

Selective considerations

Use Case Name	selective considerations
Trigger	Selective
Precondition	Admin control
Process	The selective considerations are provided to the administrative login with administrator has to decide like what perceptions are required to be included within the system so the considerations our first required to be selected at it and multiple conditional working setups are needed. All types of perceptions are provided where the users are required to select the consideration and accordingly has to utilize it
Post-condition	Added references

Cloud utilities

Use Case Name	Cloud utilities
Trigger	Selective
Precondition	Admin control
Process	Cloud utilities will be selected and accordingly will be used for using the utilities multiple categories will be provided where the users are required to select a particular utility and accordingly the considerations are required to be achieved. Multiple types of utility variations are supported which will be provided with heated configuration setup so that in the account it can be utilized on individual references
Post-condition	added

Custom formations

Use Case Name	Custom formations
Trigger	Selective
Precondition	Authentication required
Process	Custom formations based on reusability concept is included so multiple types of categorical customization options are provided which has to be selected has to be customized and has to be utilized in the system will process all the information according to the considerations that are made by the users. Structuring of the database and detailed structure in of the interface is provided within the customization zone
Post-condition	Options provided

Transfer provisions

Use Case Name	Transfer provisions

Trigger	Settings
Precondition	Authentication
Process	Transfer provisions are also included which will be helpful as we have to transfer the requirements designed or we can say that any type of structuring of a new tool is required to be transferred it can be properly associated. Multiple types of consolidation working from integrated network will be provided for which different types of settings are included which has to be properly utilized for process in the transfer. Transfer references are important because we have to establish a proper integration system where any type of related design which is being associated through the system can be directly related to third party for the usage.
Post-condition	Added to different platform

Multiple categorical

Use Case Name	Multiple categorical
Trigger	Selective
Precondition	Admin control required
Process	Multiple categorical working is selected and is provided so the administrator will define multiple spaces and accordingly the related working can be acknowledged. All types of consolidated working from a single system will be provided by utilizing different types of space that a provision. Individually each categorical reference are established and will be controlled in such a way that according to the requirements the individual categories can behave and can provide the references we should be used for the productive consolidation of the design.
Post-condition	Space defined

3.2 Nonfunctional requirements

To check the practical variations of the working we have to make understand the non functional perspective and all the non-functional perspectives will be based on the consolidation of different types of requirements as we want that all types of users can the proper be accompanied with the requirements of security, scalability, inter operations etc.

Inter operations

Multiple types of functions are provided which can be used for different types of operational requirements and different types of working me, so we can say that system provides multi operational workability which can be properly advanced by different space division and by different user integrations.

Security

Multiple types of consideration that are related with the securities also provided so that the users can be provided with detailed security as we want that when a new design is being incorporated it also requires a security implementation and even when multiple users will be added for the working there also different security requirements are needed so the system provides the options that has to be selectively utilized.

Robust

System is robust and all types of requirements for the real-time work management and guidelines will be provided, so any type of error formations that arises in the real-time workability will be updated to the users in the form of notification.

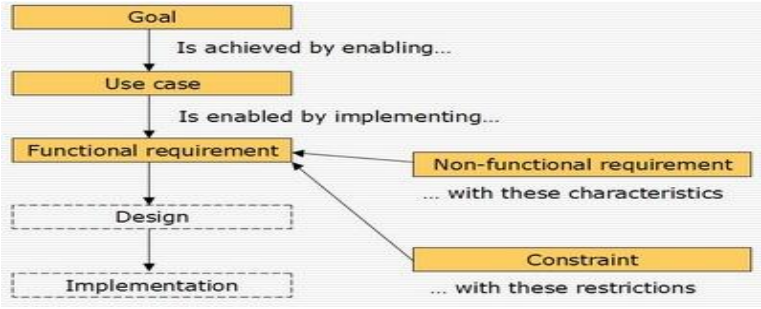


Figure 3.1- Nonfunctional reference is shown

Scalability

Scalability references are provided so one system can be used for multiple inclusions of the resources and usability at the same time different types of new tools can be design and it can be also utilized for different types of consideration of work acknowledgement.

Legal

Add multiple tools are included the legal provisions are required to be acknowledge properly and even the references of legal consideration for required to be provided in such a way that uses understanding the usage guidelines.

4. SYSTEM DESIGN

4.1 CONTEXT DIAGRAM

Context diagram provides multiple sequence of synchronization of processes where all types of scope and boundaries of the system at a glance is shown.

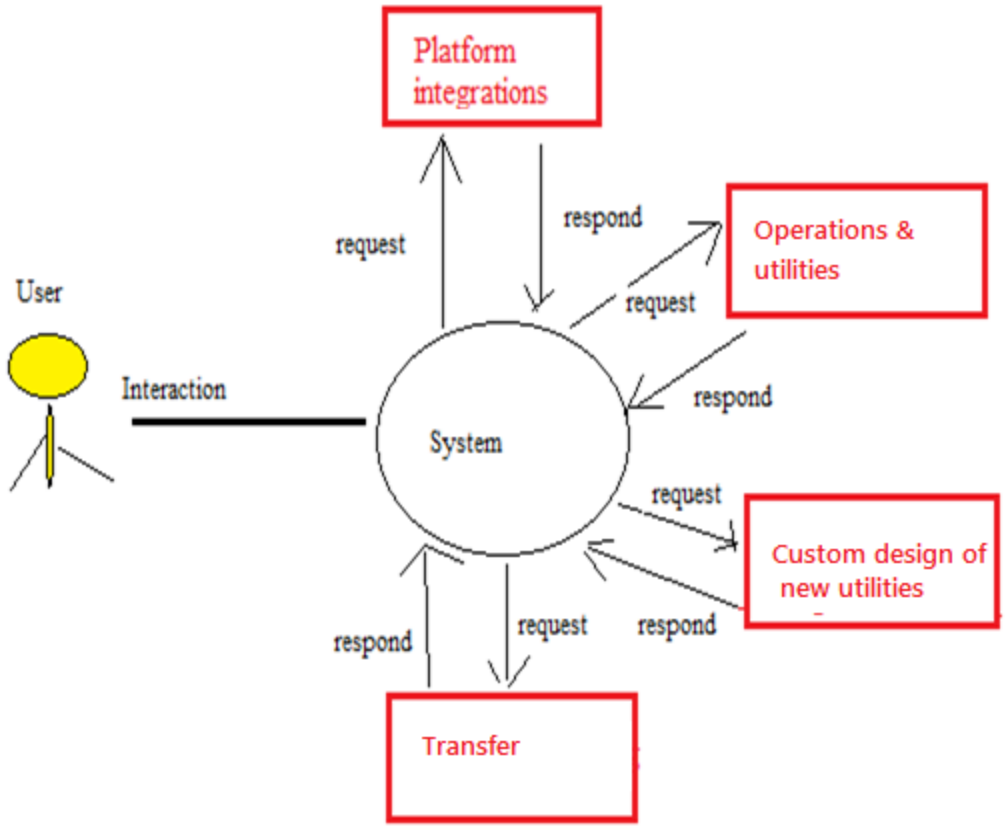


Figure 4.1- Context diagram

4.2 DATA FLOW DIAGRAM

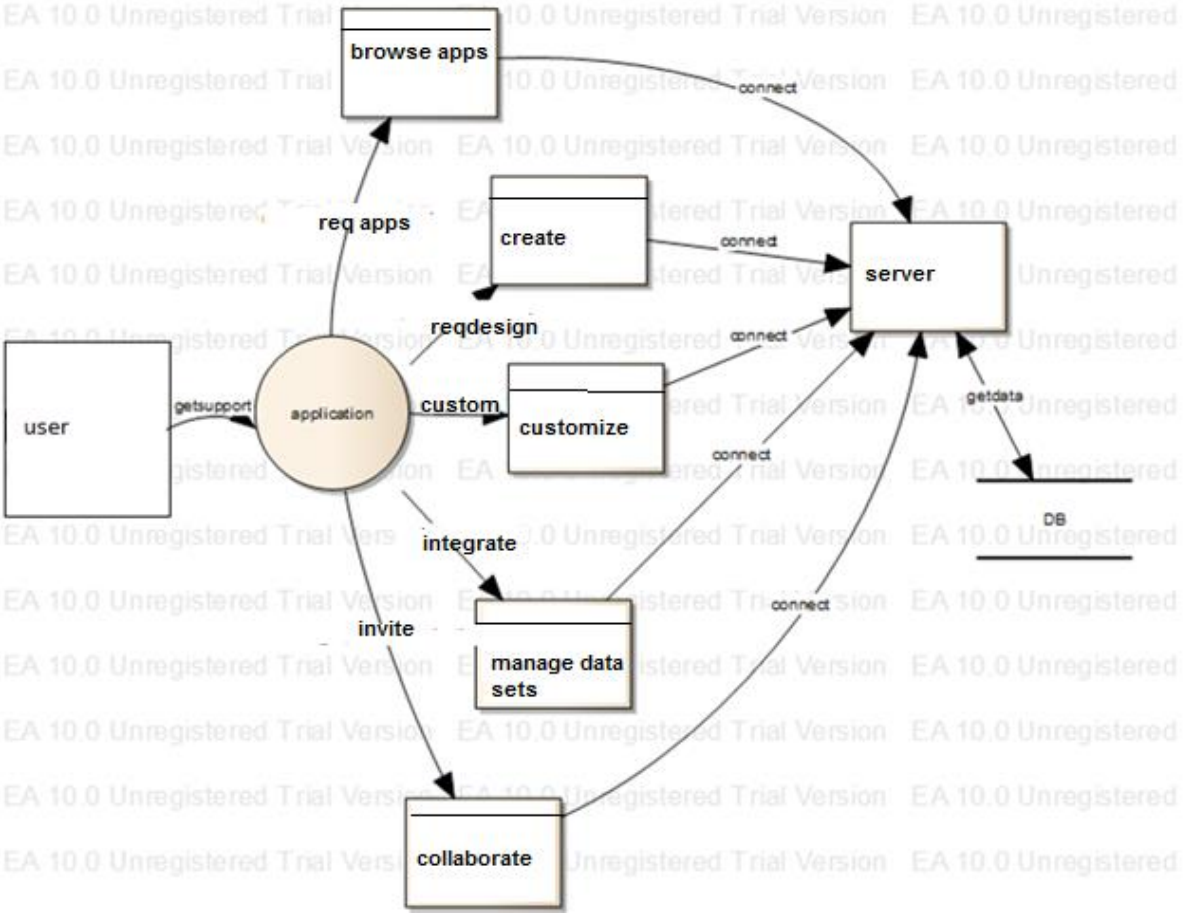


Figure 4.2- DFD diagram of application

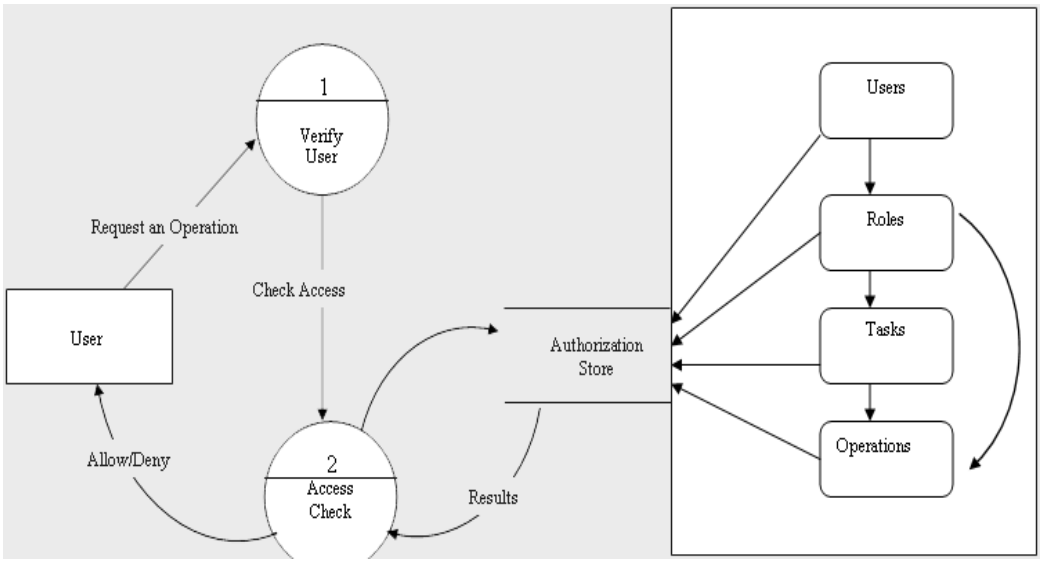
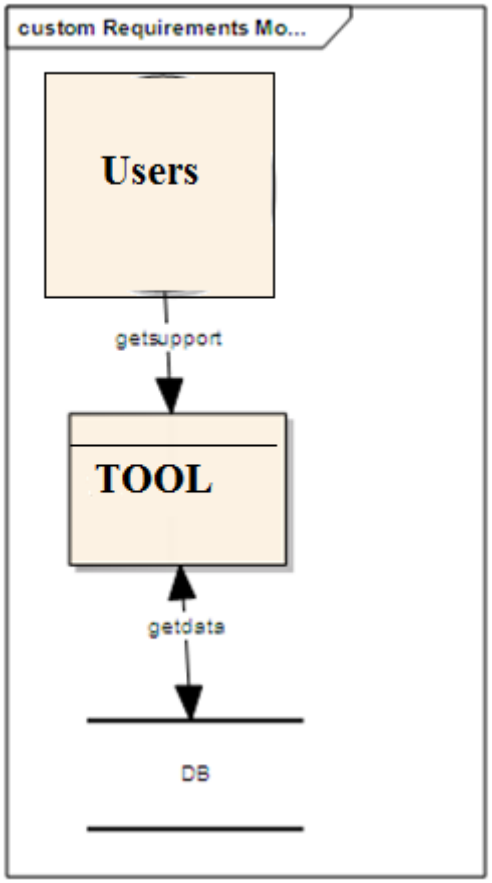


Figure 4.3- DFD diagram



O-level DFD

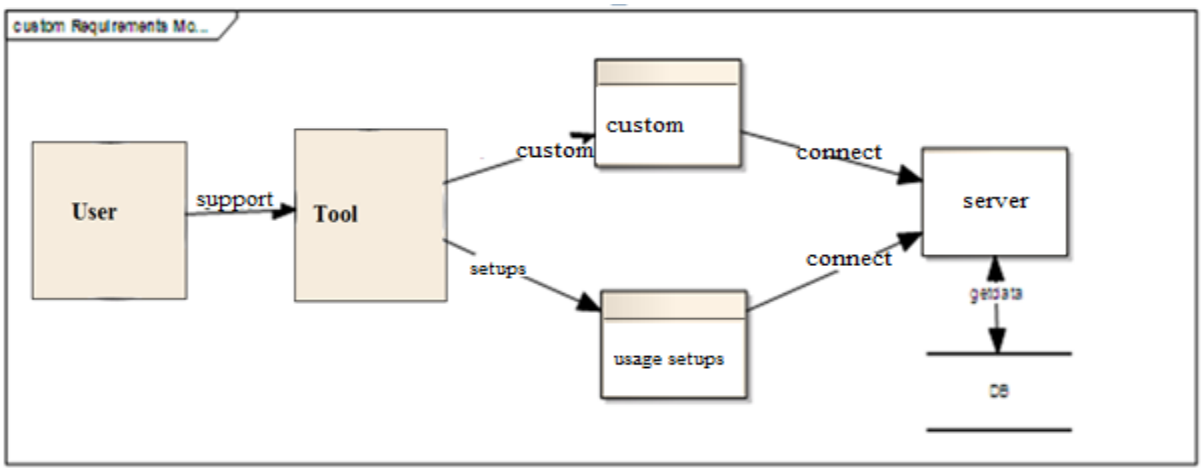


Figure 4.4- 1-level DFD

4.3 ARCHITECTURE DIAGRAM

A conceptual model is been designed so that the structure behavior and view of the system can be properly recognized this is what we call the architecture diagram.

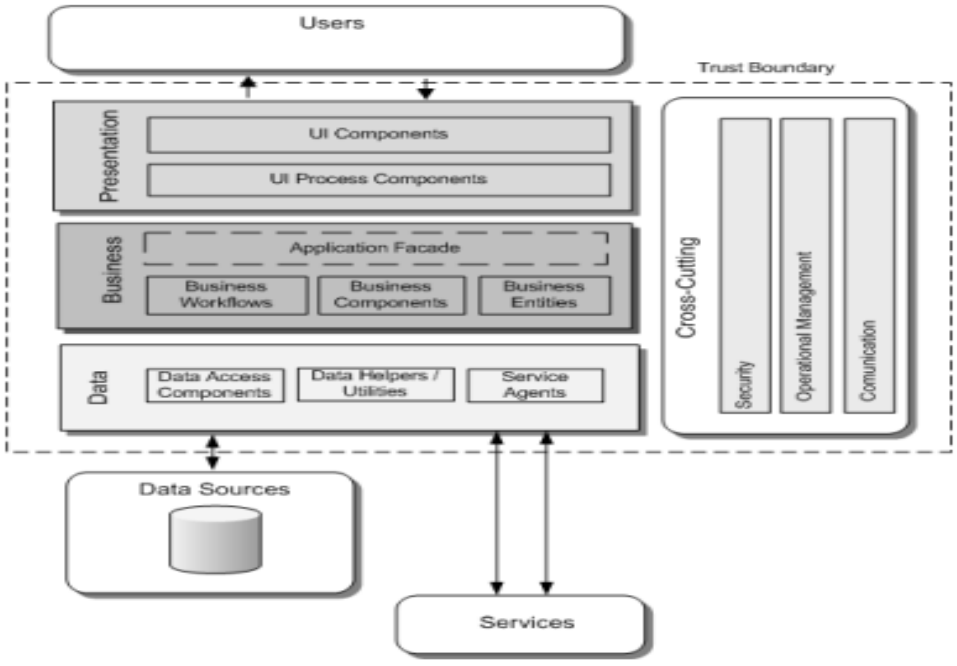


Figure 4.5

5. DETAILED DESIGN

5.1 USE CASE DIAGRAM

The use case diagram define the interaction between the actor and the system to achieve a particular goal that has to be considered for the working.

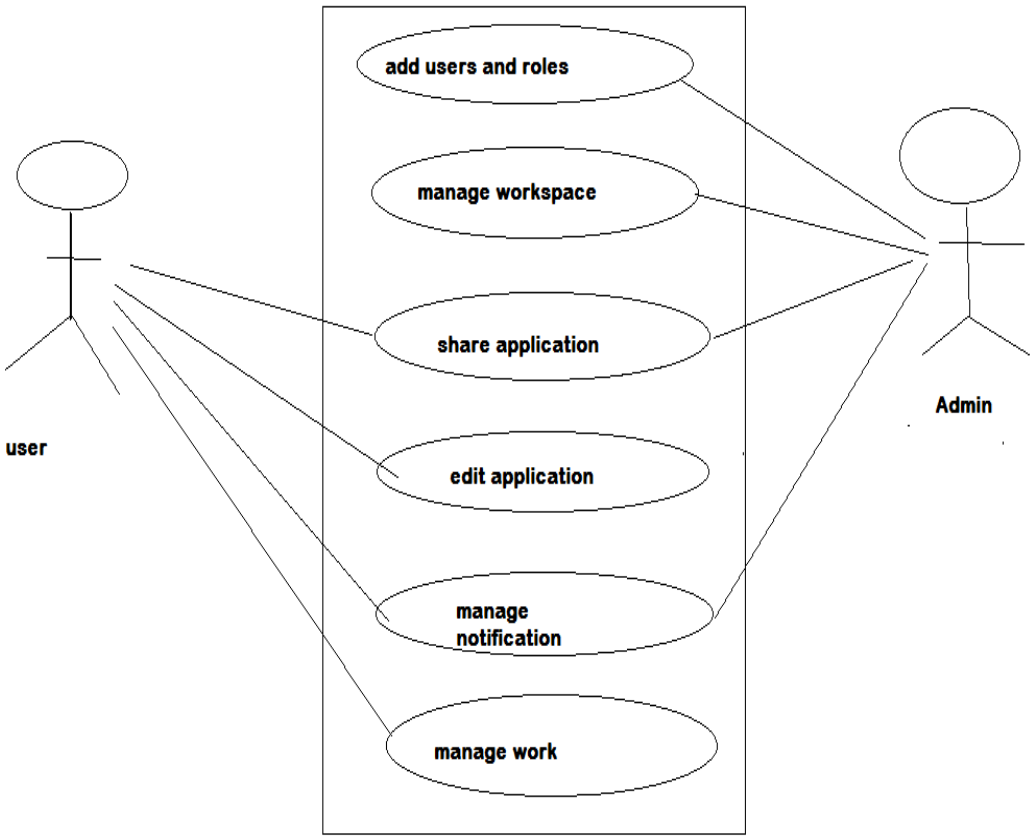
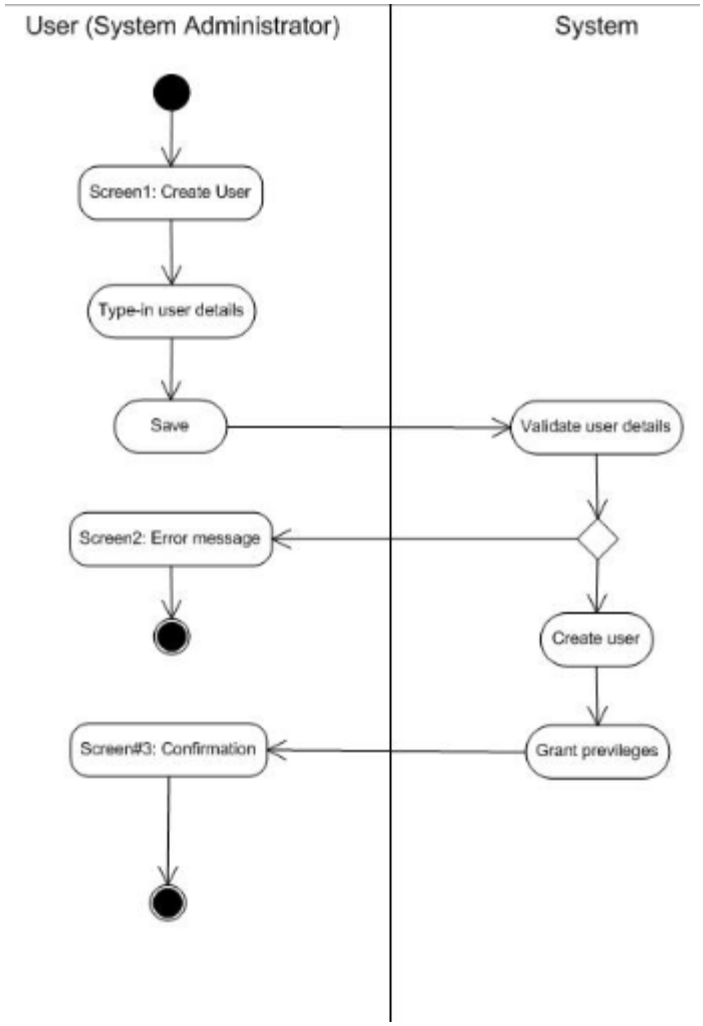
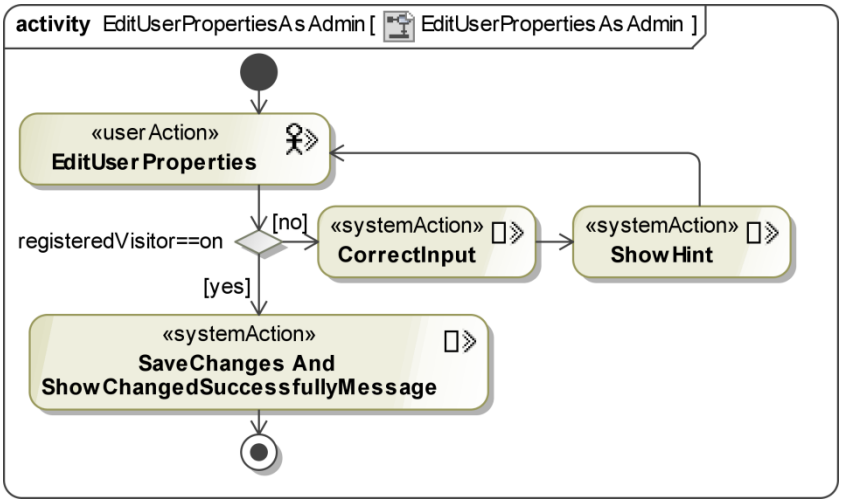


Fig 5.1.1 - Use case diagram

5.2 ACTIVITY DIAGRAM

Activity diagram shows the sequence of activities and a describe in parallel branch in con current flow of the system.





Activity for admin

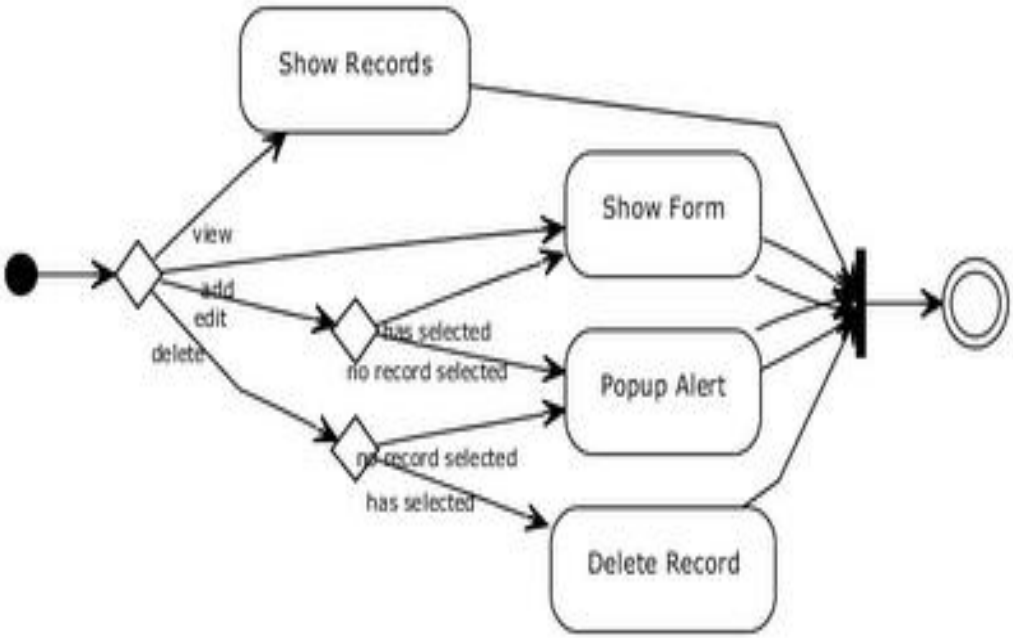


Figure 5.2.1- Activity for data access & modification

5.3 SEQUENCE DIAGRAM

Sequence diagram shows the related external actors and the related methods invoked by these actors.

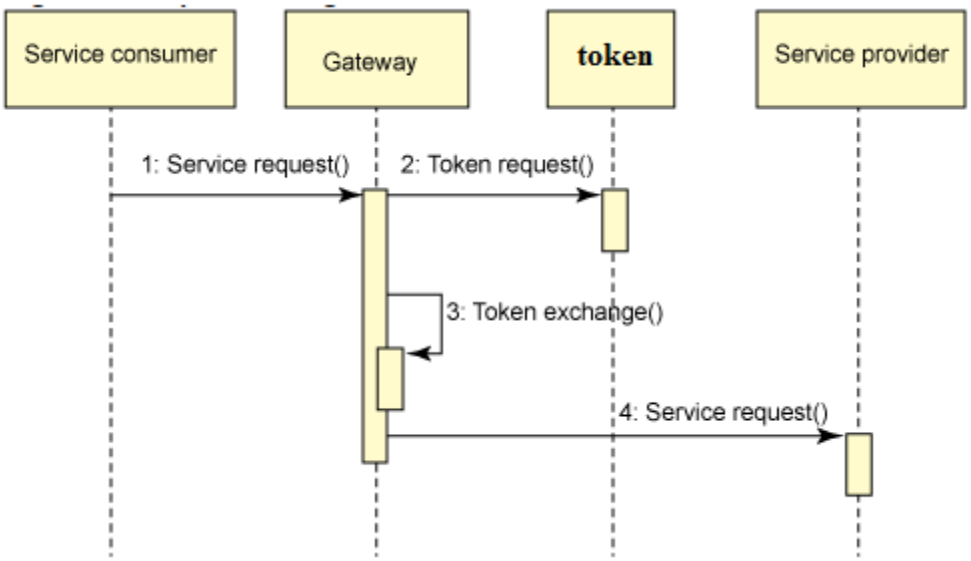


Figure 5.3.1- Security sequence diagram

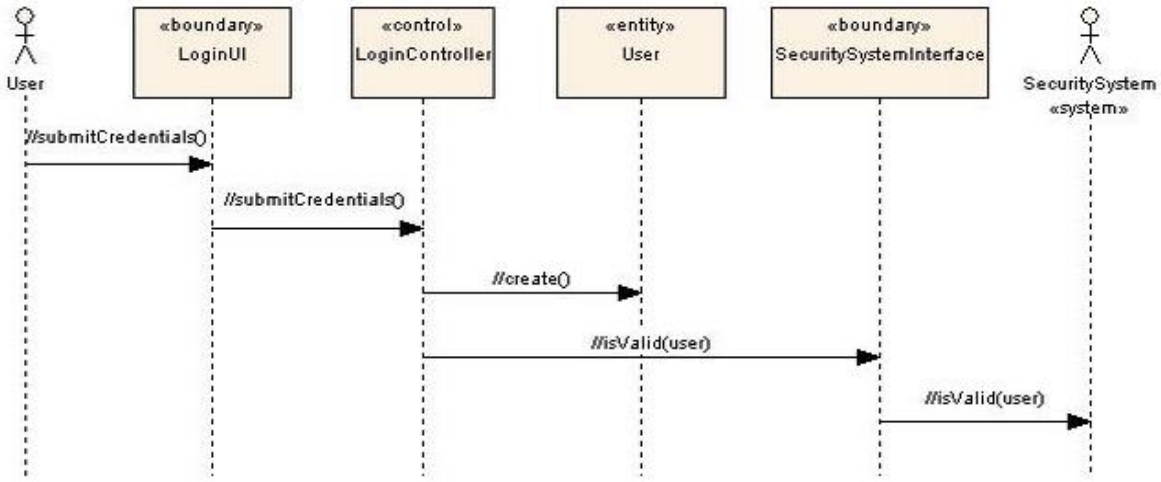


Figure 5.3.2 - Sequence for credential check

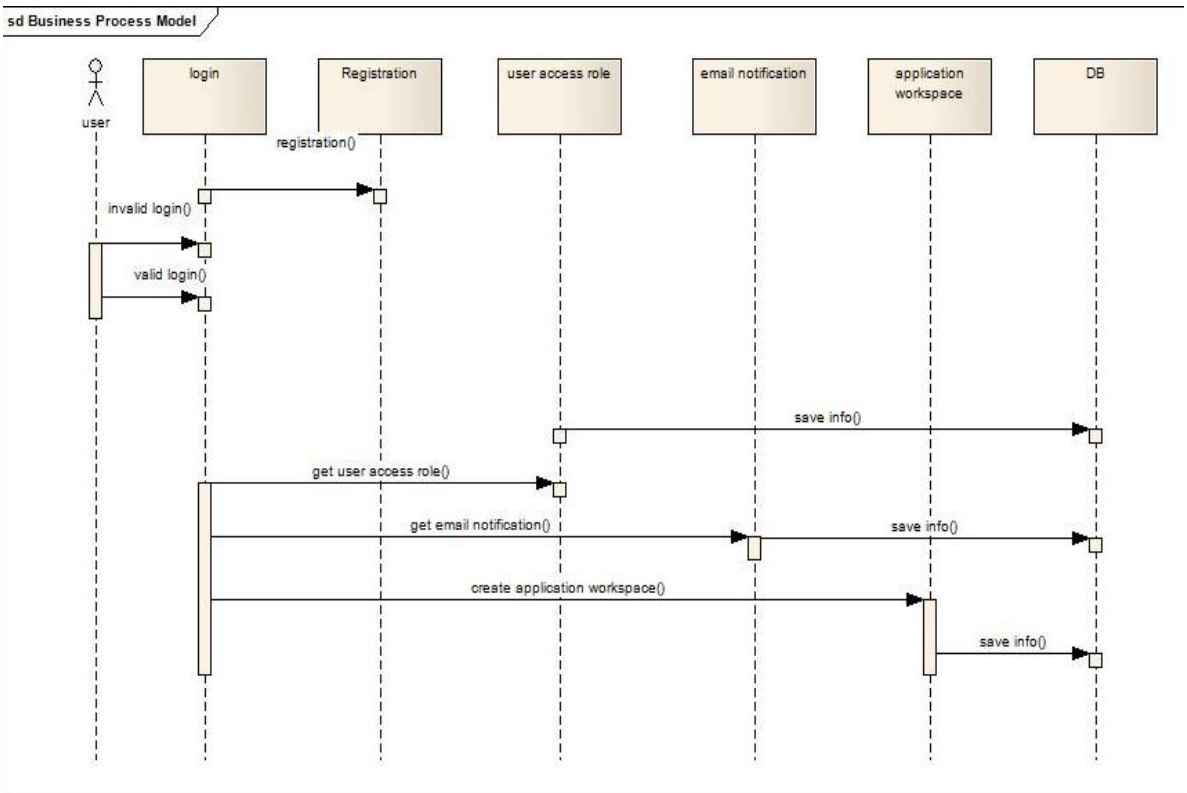


Figure 3.3.3- Sequence diagram

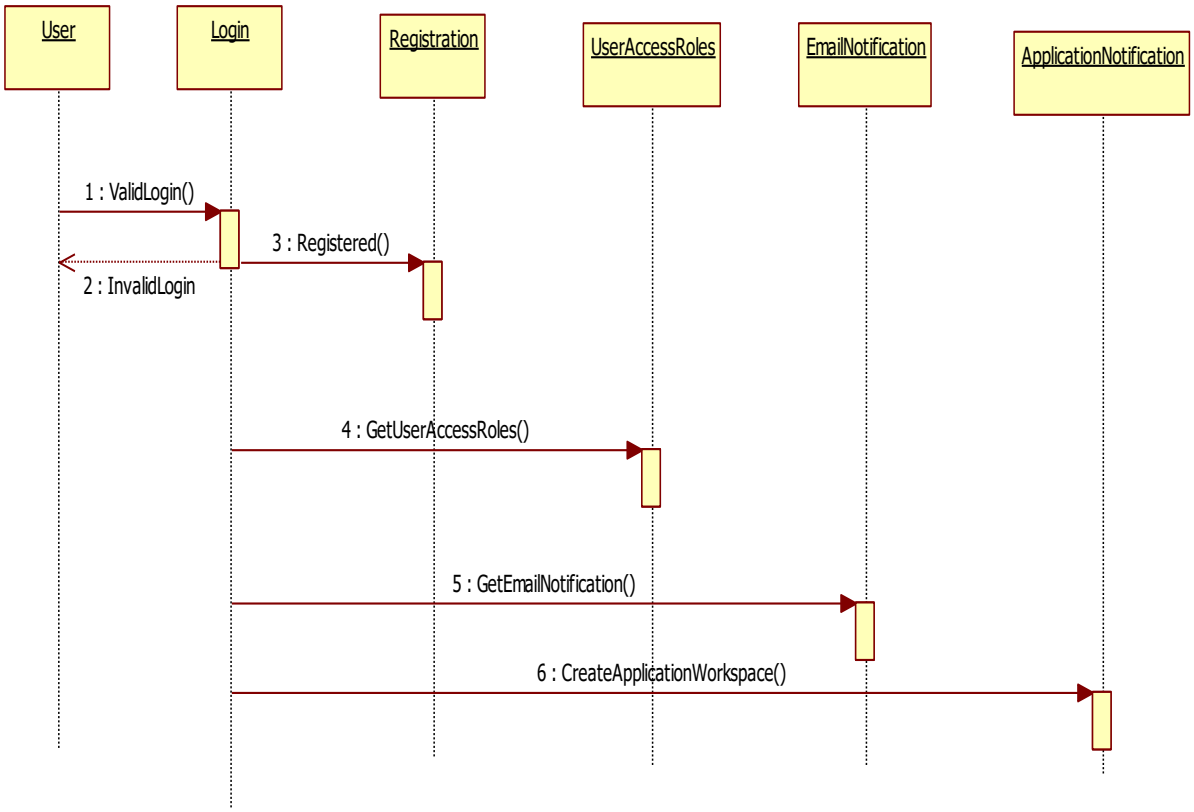
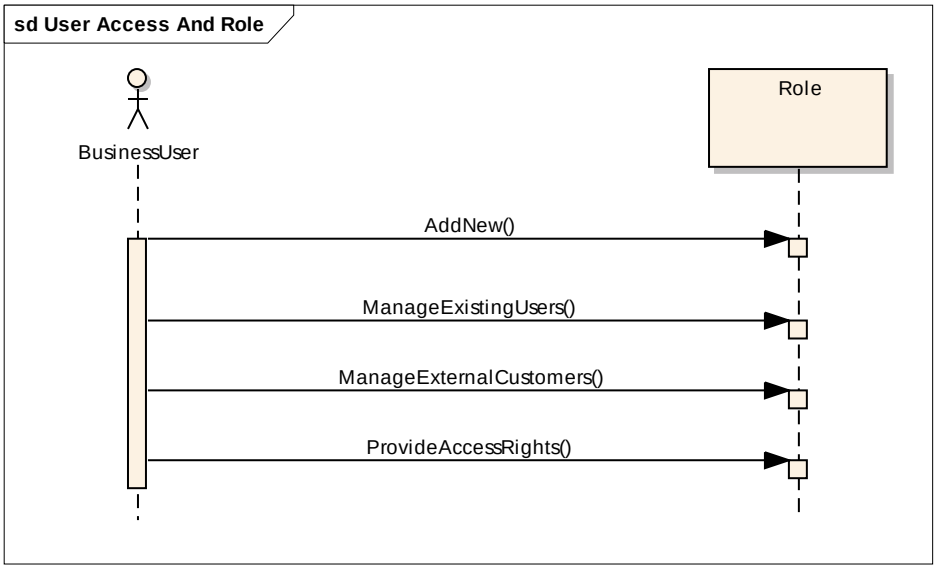


Figure 5.3.4- Sequence diagram



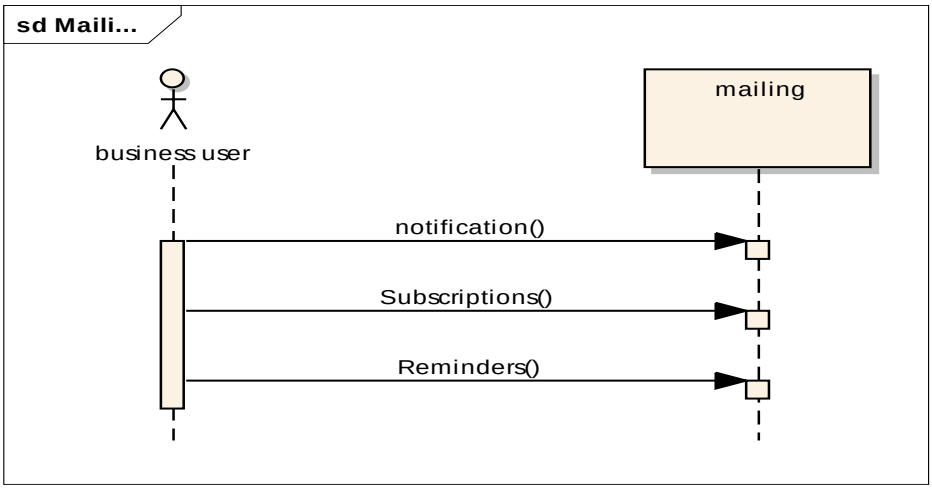


Figure 5.3.5 – sd mailing

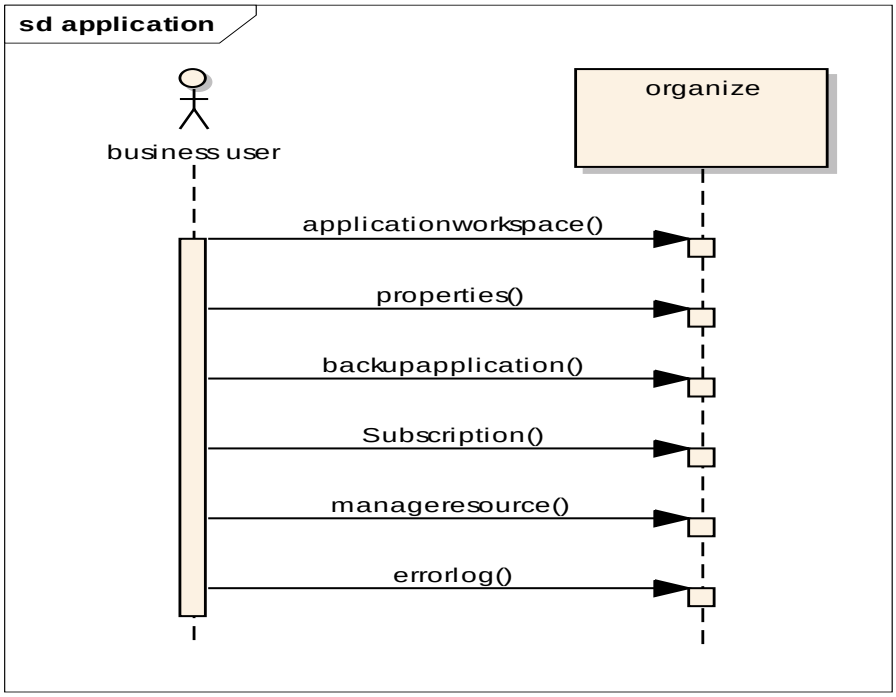


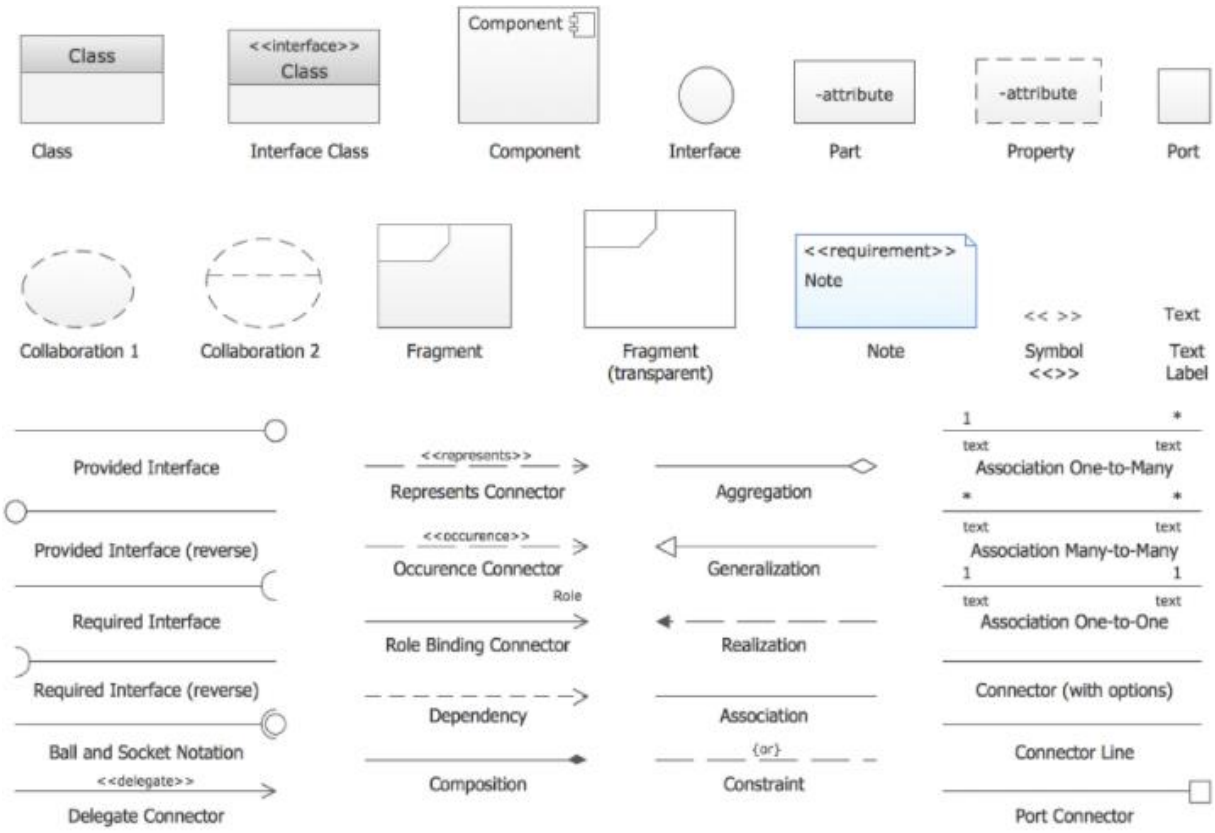
Figure 5.3.6 – sd application

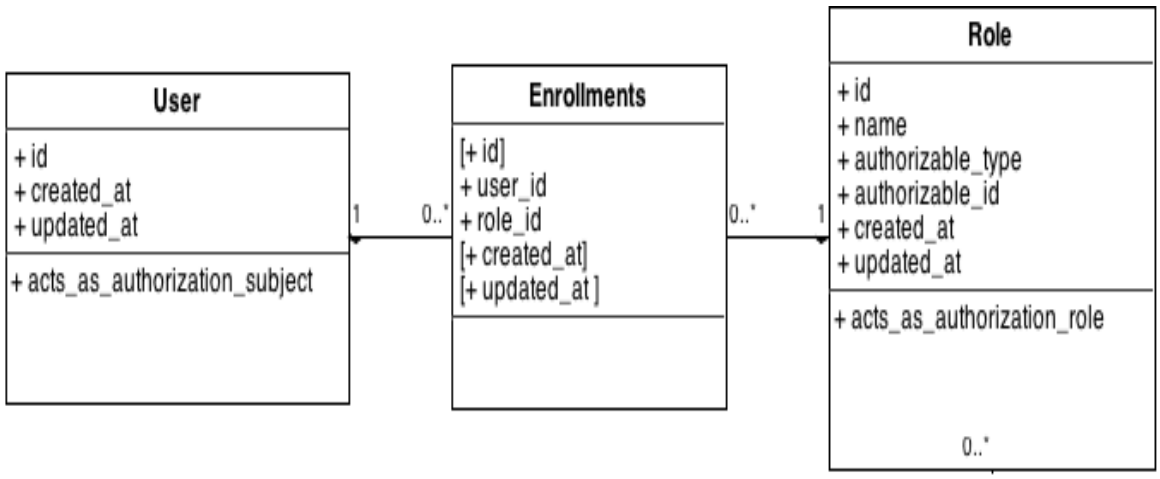
5.4 ENTITY RELATIONSHIP MODEL

Figure 5.4.1- Resource permission ER diagram

5.5 CLASS DIAGRAM

Class diagram is a reference where the structure is described in the format of classes attributes operations in the relationships.





Class diagram roles

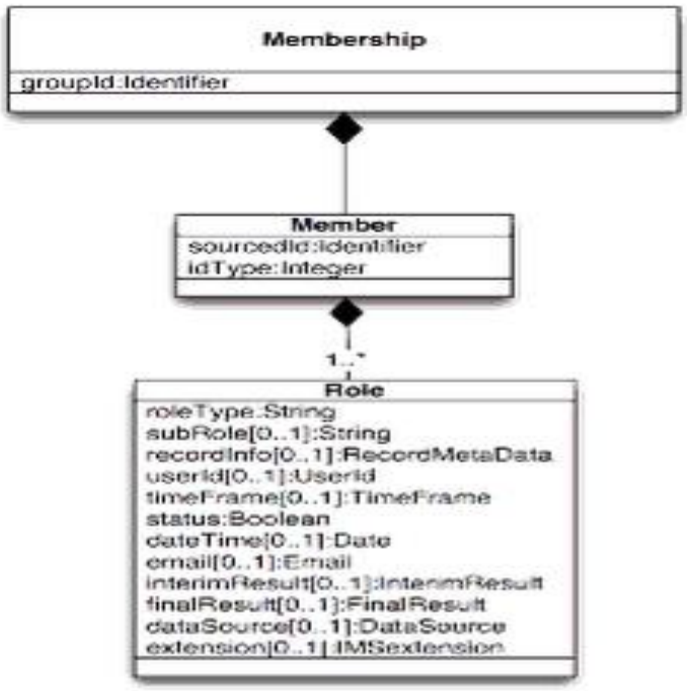


Figure 5.5.1- Class for members

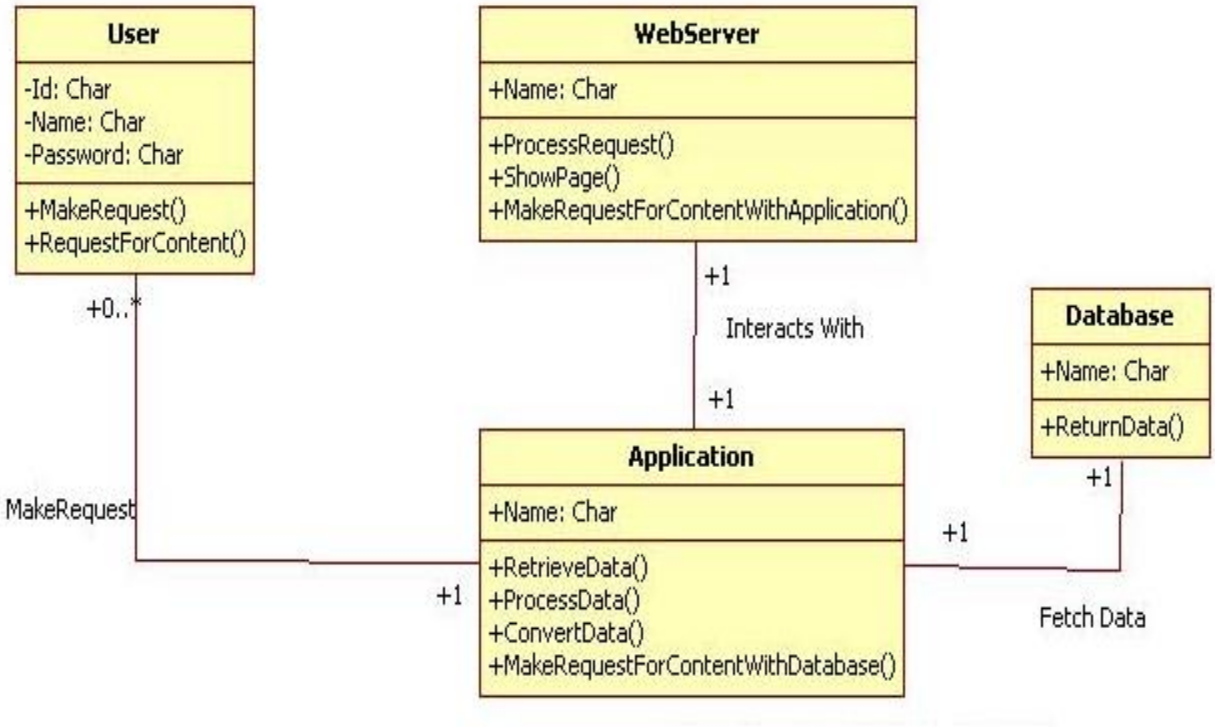


Figure 5.5.2- Class diagram

6. IMPLEMENTATION

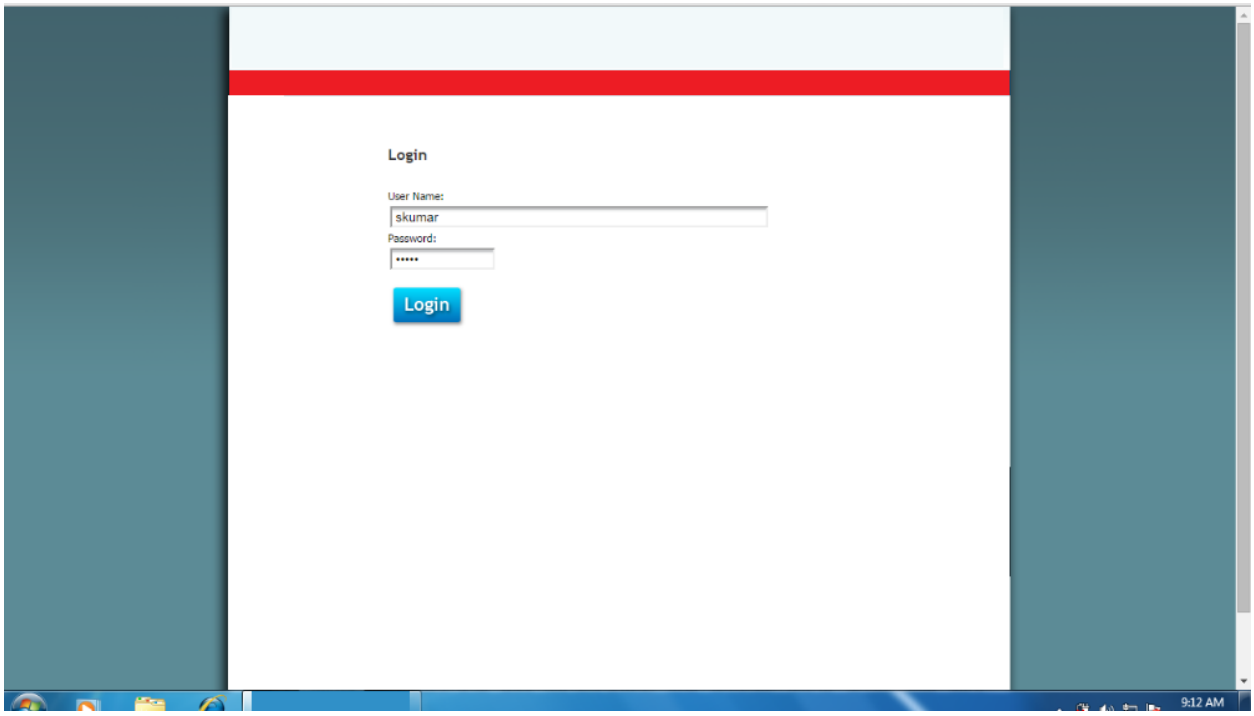


Figure 6.1- Login page

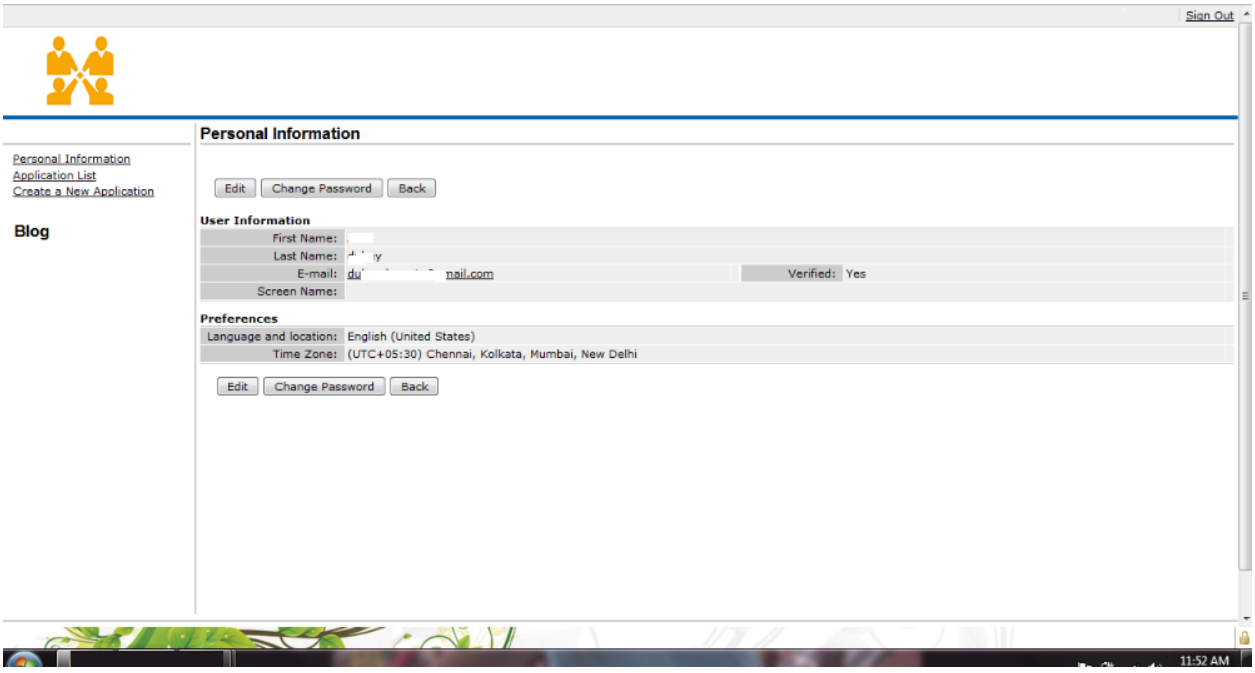


Figure 6.2- Profile settings and blog integration option

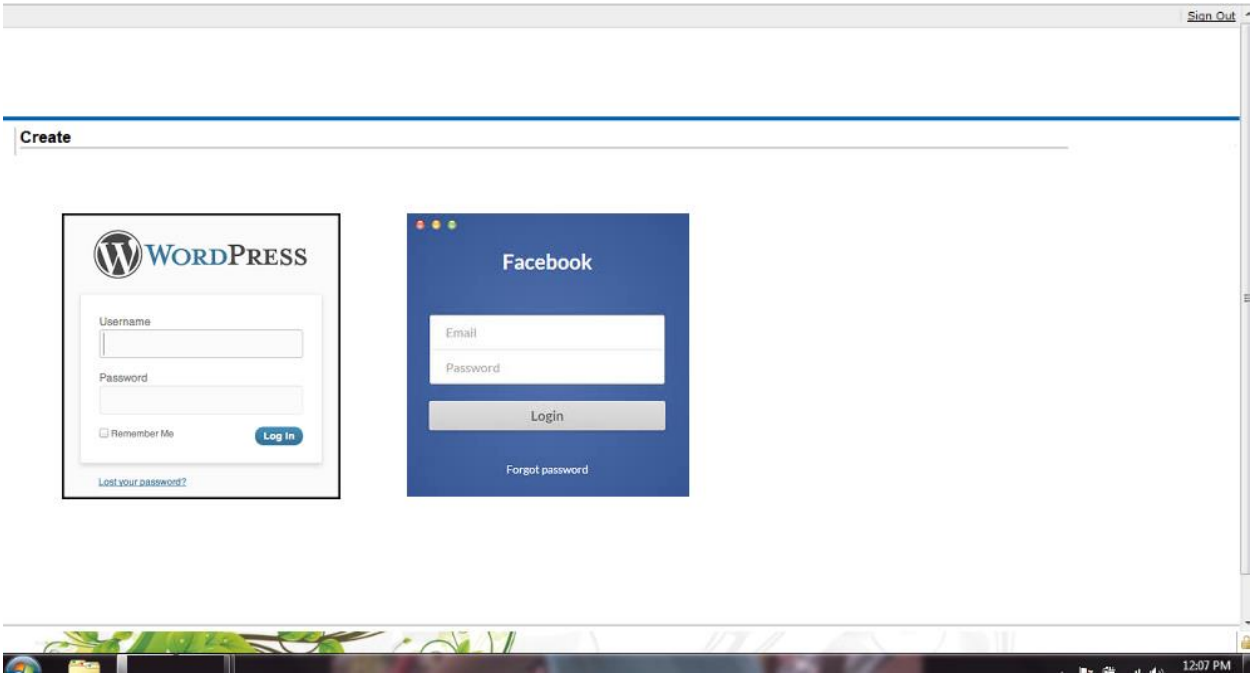


Figure 6.3- Blog integration options

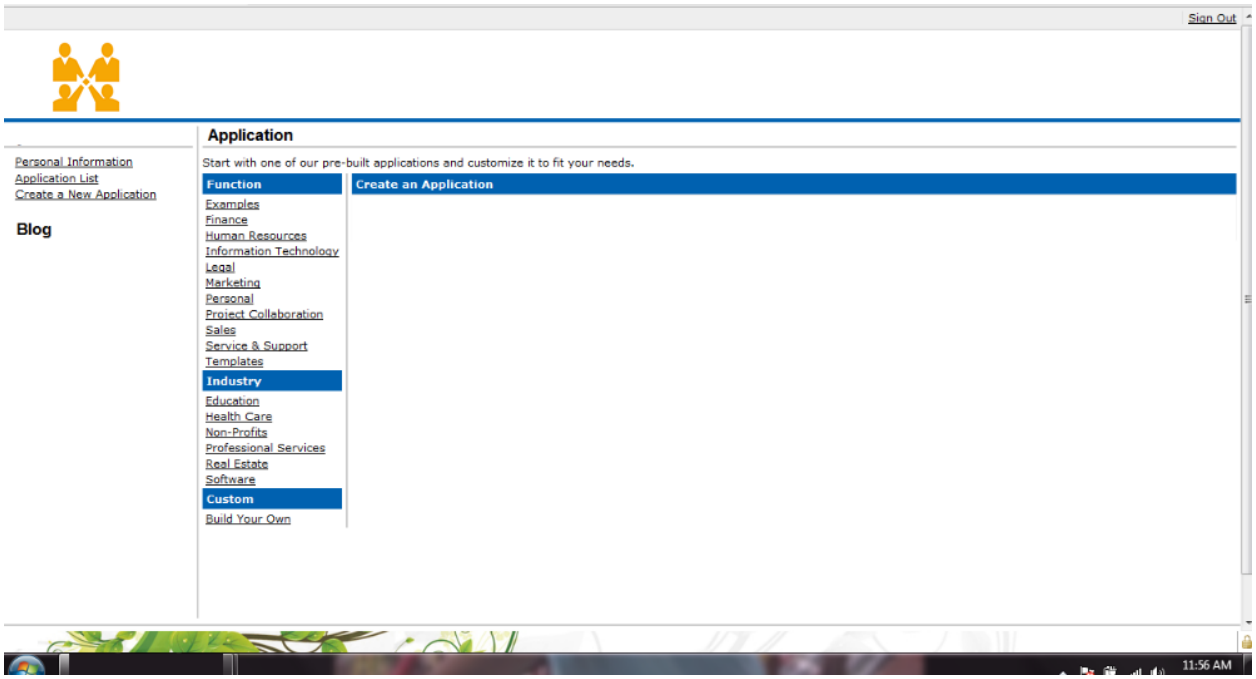


Figure 6.4- Application list

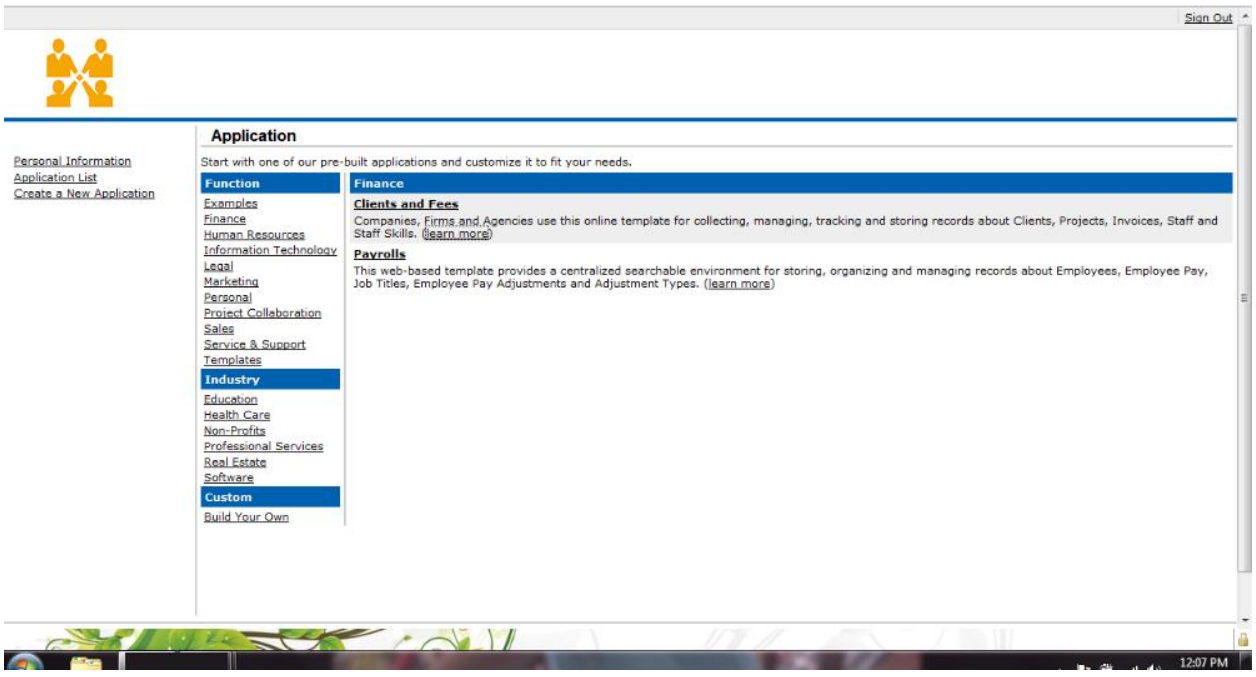


Figure 6.5- Selective vendor application list show

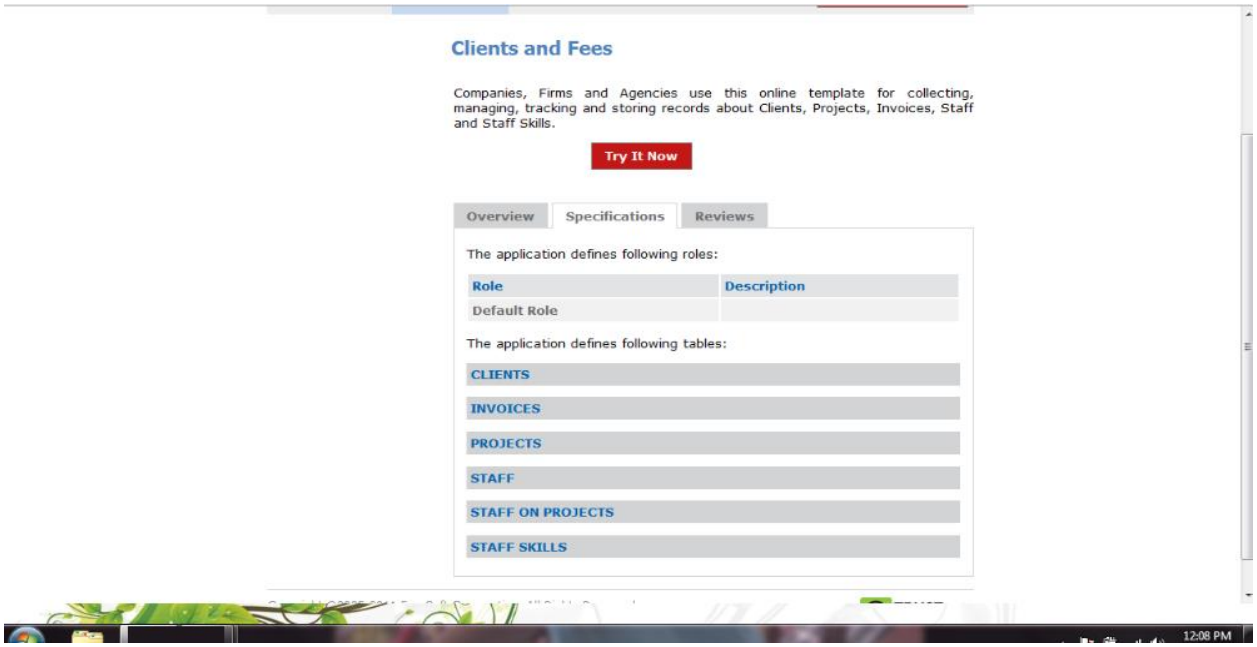


Figure 6.6- Specification for the selected tool provided

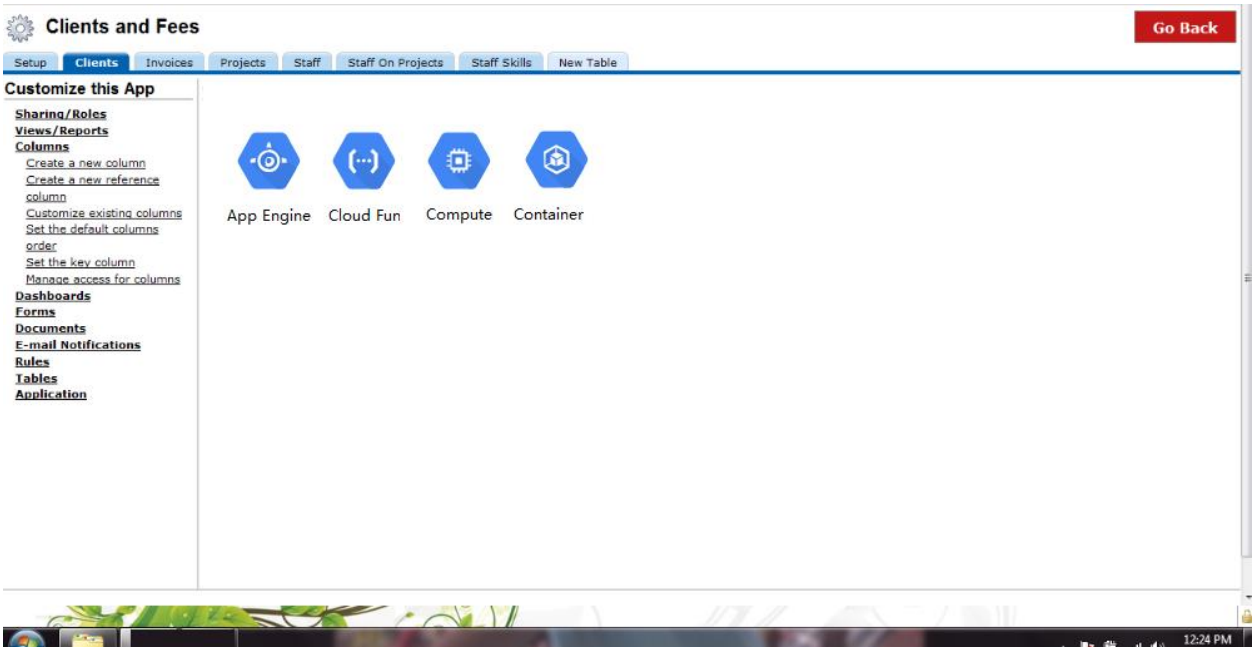


Figure 6.7- Cloud integration – usage as tool, cloud usage, branding and details

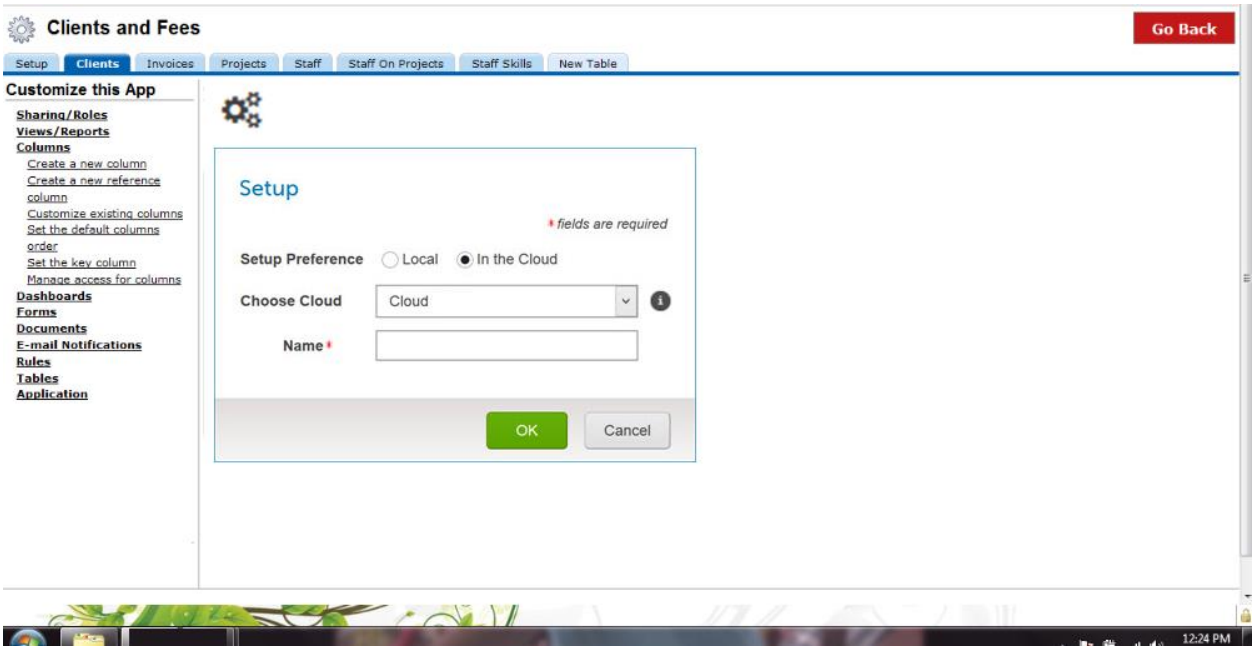


Figure 6.8- Cloud settings is shown

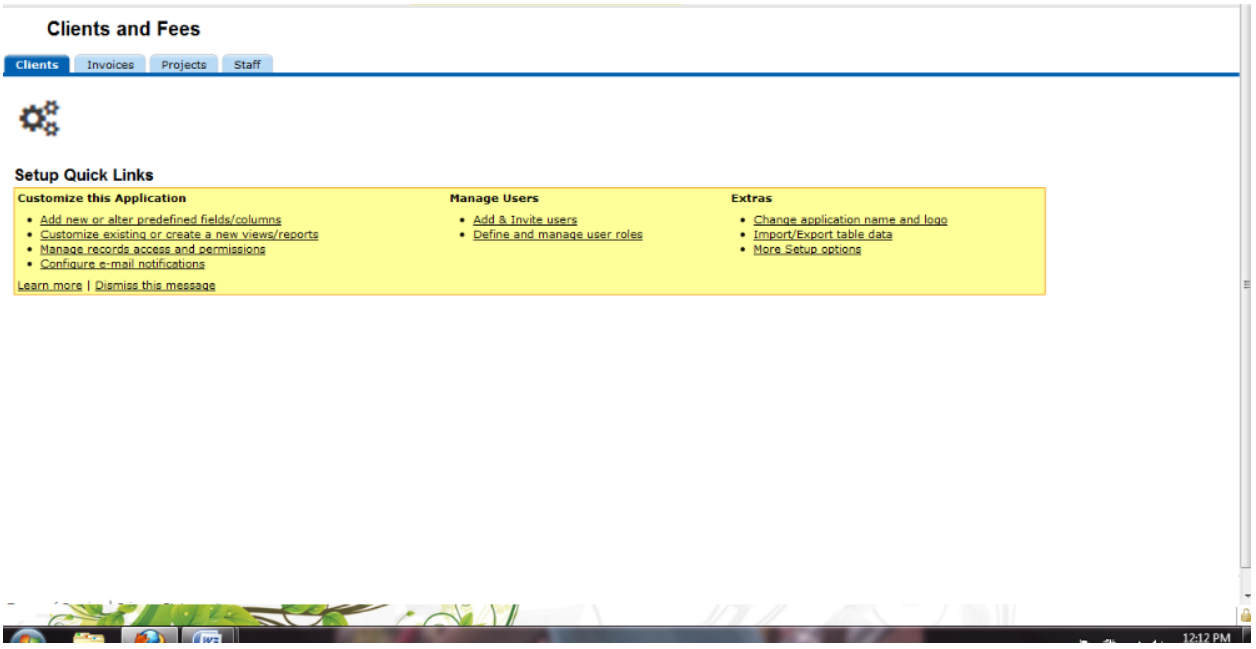


Figure 6.9- Multiple customization options is associated with redirection working

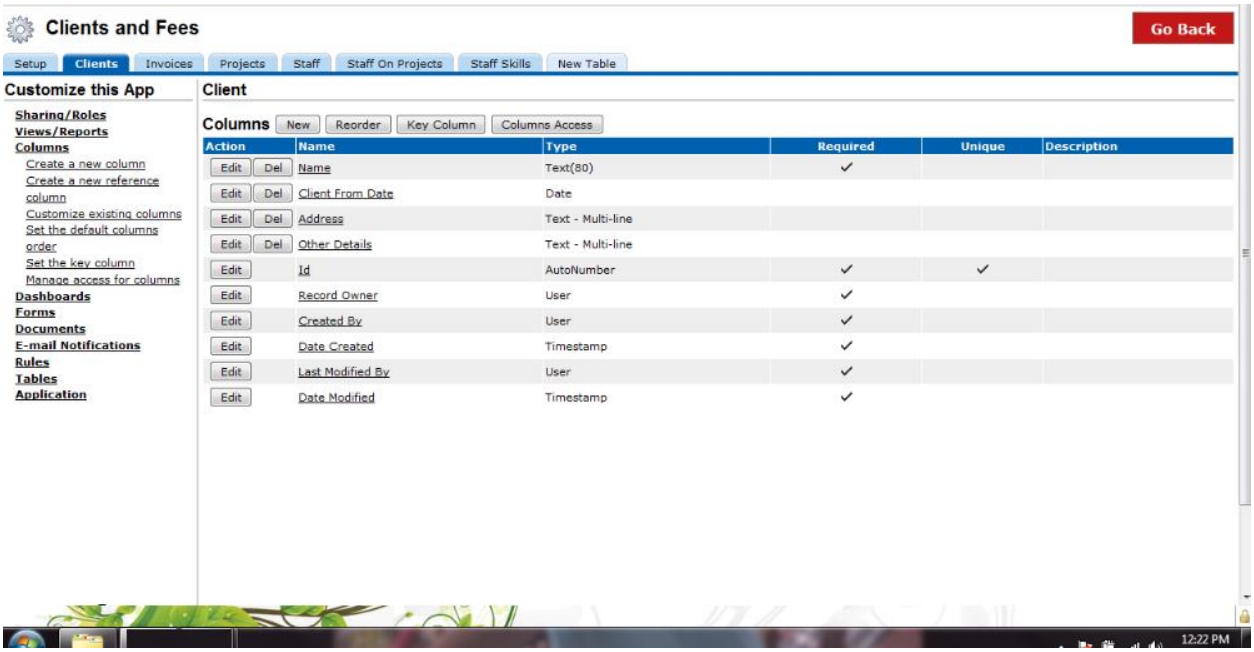


Figure 6.10- Data based customization shown

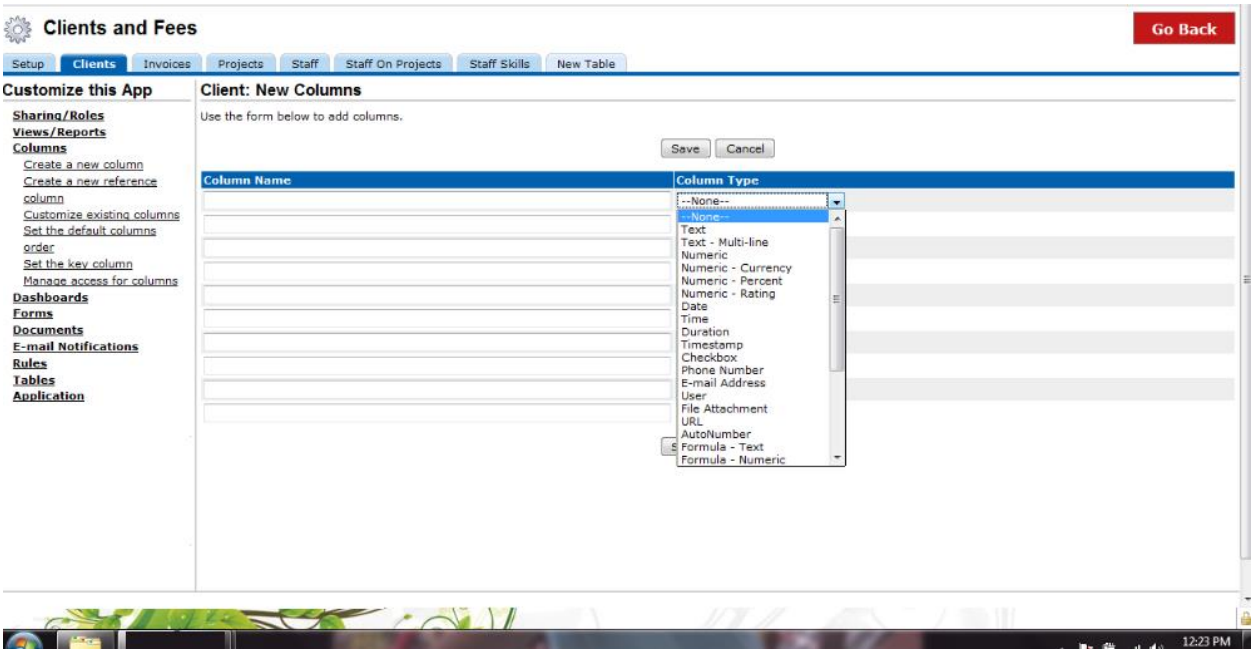


Figure 6.11- New column design shown

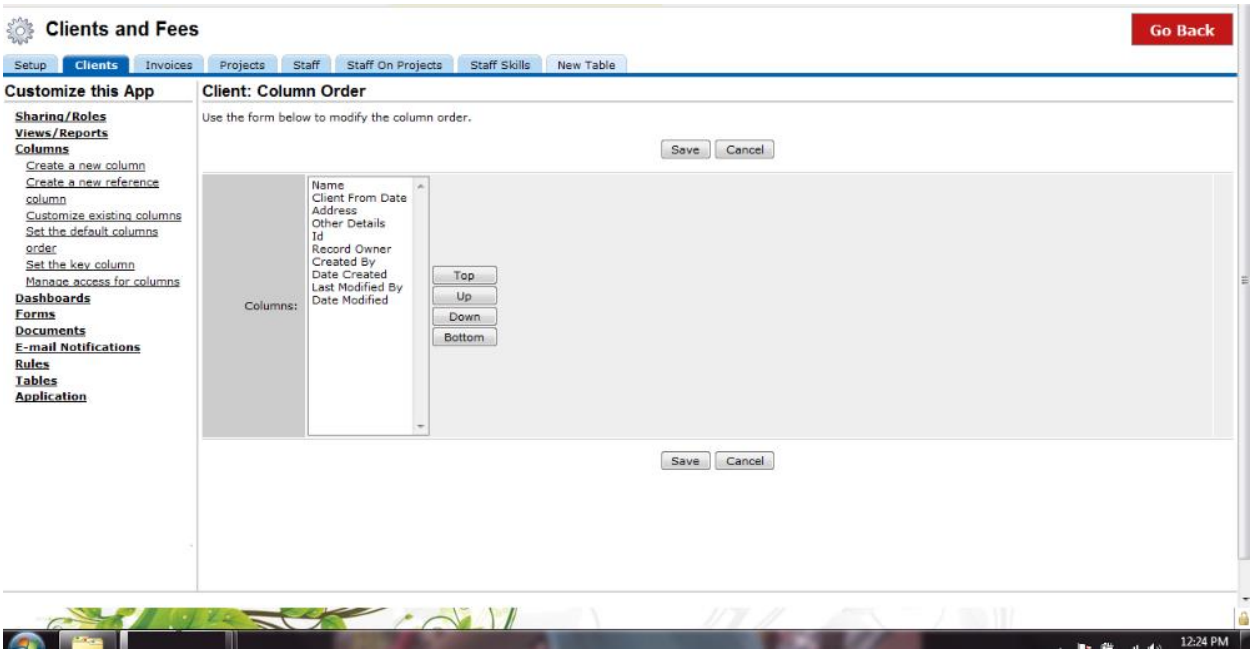


Figure 6.12- Arrangements

7. SOFTWARE TESTING

Acknowledging software testing is important for the company because we have to check that all the related customization provisions provided works properly in the real-time so that the clients can utilize it according to their own acknowledgements. Software testing is also important because it will help us to find the problems earlier and all types of consolidated understanding can be achieved before the system is provided to the working clients.

The system with the help of proper software testing can be elaborated as all types of perceptions can be checked in different scenarios in as the perceptions are checked it is more helpful because it will save the time of modification that is required to be included if the bugs are found at real time working place. Consolidations of the working provided will be also check for the references, inclusion because we want that multiple types of acknowledgements can be undertaken at the same time and even all types of acceptance variations in terms of the client's workability will be checked.

Software testing is very much essential and requires integrated revision where multiple users that are associated with the company will be coordinating to have a discussion based on different types of references,that is needed to be implemented for performing the activity provisions. Software testing includes the categorical understanding that has to be associated with the system where references can be selected and can be utilized for the custom options of the design.

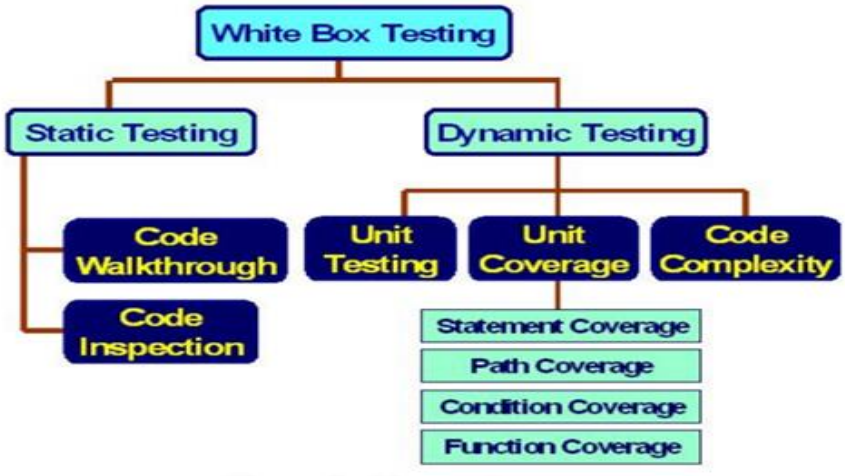


Figure 7.1-White box testing is shown in the above reference

Unit testing

We will be performing the unit testing as we want that all units individually should be checked for area checking the units properly this will help us to obtain the related work references properly

Data flow synchronization and other code coverage techniques will be utilized.

The categorical variations that had provided for the modification will be checked as we require that all types of references that are included within the system for the modification should work exactly according to the selective options used by the users.

All types of cloud utilities will be checked as he wants that all the cloud utilities should work properly in reference.

All types of transfer consolidation that is provided will be also undertaken because we want that all types of transfer references on other environment should be compatible.

Different division is being checked because we want that all the third party reference that is provided for the infrastructure and service orientation based working supports individual accounts.

White box testing

We are including white box preference because we want authority check or we can say that at the time of development itself the answer should be properly checked based on the coding.

White box testing is important because it will give us all detailed insight about the related workability.

The considerations are important and it have to be established in a way that all types of internal knowledge is required and the testing will be done by the experts.

7.1 Test cases

Serial	Test-case	Test-Input	Results	Actual	Checked	Severity
1	Super admin	Credential provided	User association	Different setups included	Pass	Critical
2	Virtual working	Setups	Space design options included	Virtual reference provided	Pass	Critical
3	Working options	Select	Category search provided	According to reference tools can be selected	Pass	Critical
4	Working	Access provisions	Should be workable	Multi working be organized in parallel	Pass	Critical
5	Cloud-data	Auto sync	Data platform will be added	Sync provided	Pass	Critical
6	Modifications	Selective	Categories for modification implementation provided	Reference of modification included	Pass	Critical

7	Reusability	Selective	Options	Selected and used	Pass	Critical
8	Transfer	Choice based	Setups provided	Reference transfer and usability seen	Pass	Critical

8. CONCLUSION

Customization provisions that are required to be acknowledged for multi conceptual working is properly provided in all types of work concentration requirements are also required which is also associated on a single system making the overall system workable in different references. When the system is being utilised multiple categorical,inbuilt provisions are provided which is helpful to understand and reference the work properly and each type of consolidated considerations a properly refined so that uses and acknowledge their activities with proper referential understanding. Multiple types of customization references based on interface designs and other provisions of Designing requirements are associated so we have utilized all the categories and we designed a reference which works properly.

Consolidated working based on different types of cloud utilities are also paid so we can acknowledge that all types of cloud references that are provided can be properly associated on a single system which can be channelized with detailed consideration by the users on a shelf working process. Multiple types of associated work acknowledgements that are needed are also supported so we can utilize multiple types of prospective at the same time making it quite useful. We can also conclude that system provides the security in solutions which is important when different types of references are required to be provided to the users on a global scale. All types of related department acknowledgement will be supported so the clients can add multiple departments and can associate the work in different references.

At the end I can conclude that various types of service orientation and different types of design infrastructure reference in which are provided within the system works properly and each reference is directly related with the type of workability which is needed. Establishing multiple considerations of the resource usage and different types of provisions that are associated with the acknowledgement of the design is properly provided.

9. FUTURE ENHANCEMENT

Future enhancements are important as the system is based on service and in the future more requirements can arise so we have to properly accommodate all the requirements. Some of the important references of the future enhancement are listed as following-

More usability provisions based on cloud utilities can be added for the users.

More reference of reusability can be added for the users.

More customization options can be added so that the workability can be more optimized for example branding provisions can be added for the design.

10. BIBLOGRAPHY

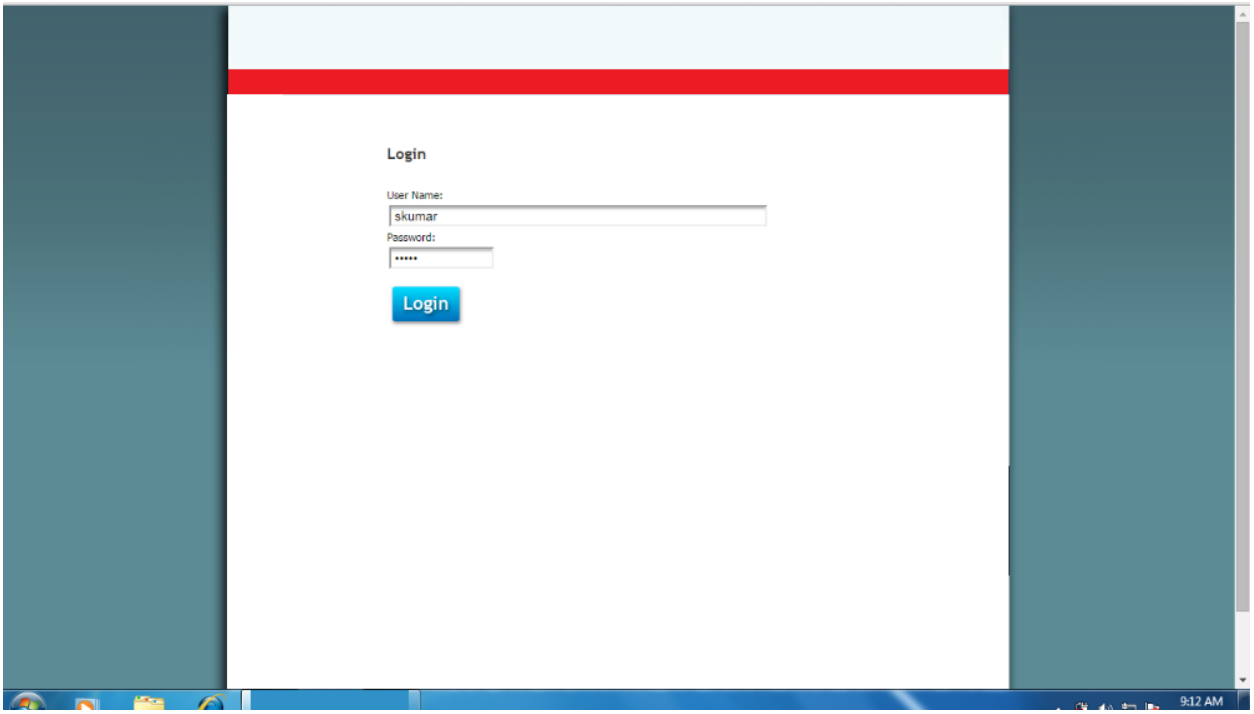
Java

- "The Arrival of Java 14!". Oracle. March 17, 2020. Retrieved March 17, 2020.
- "Binstock, Andrew (May 20, 2015). "Java's 20 Years of Innovation". March 18, 2016.

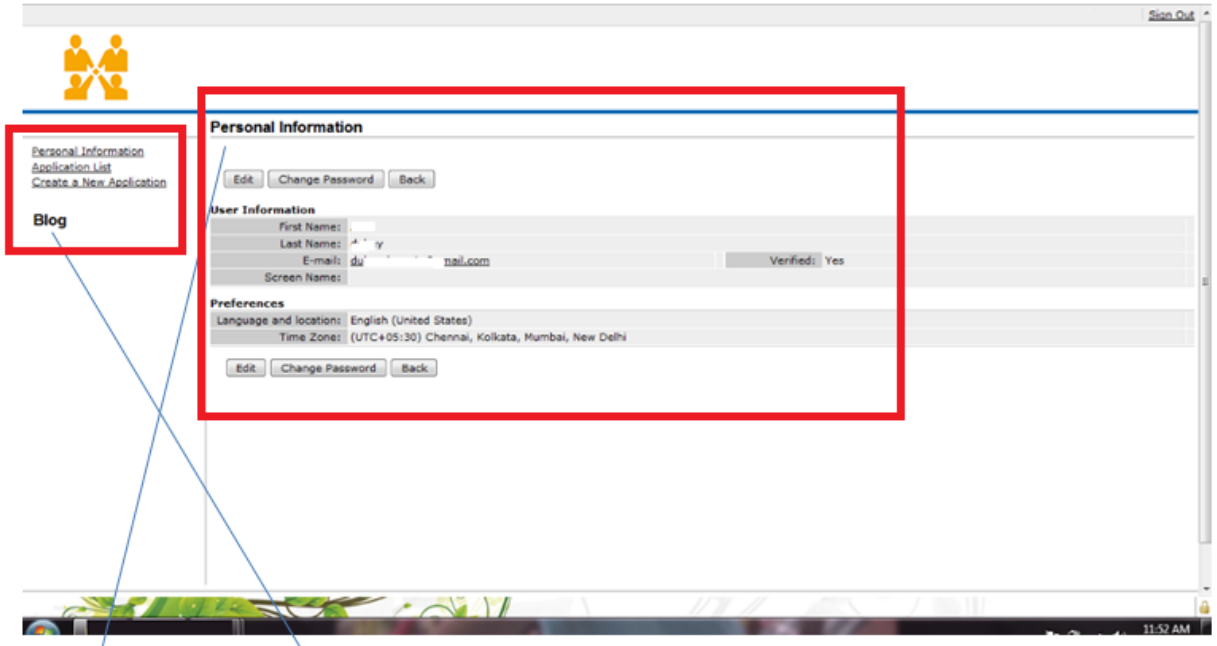
Web referrals-

- www.wikipedia.com
- www.scribd.com
- www.microsoft.com
- www.google.com

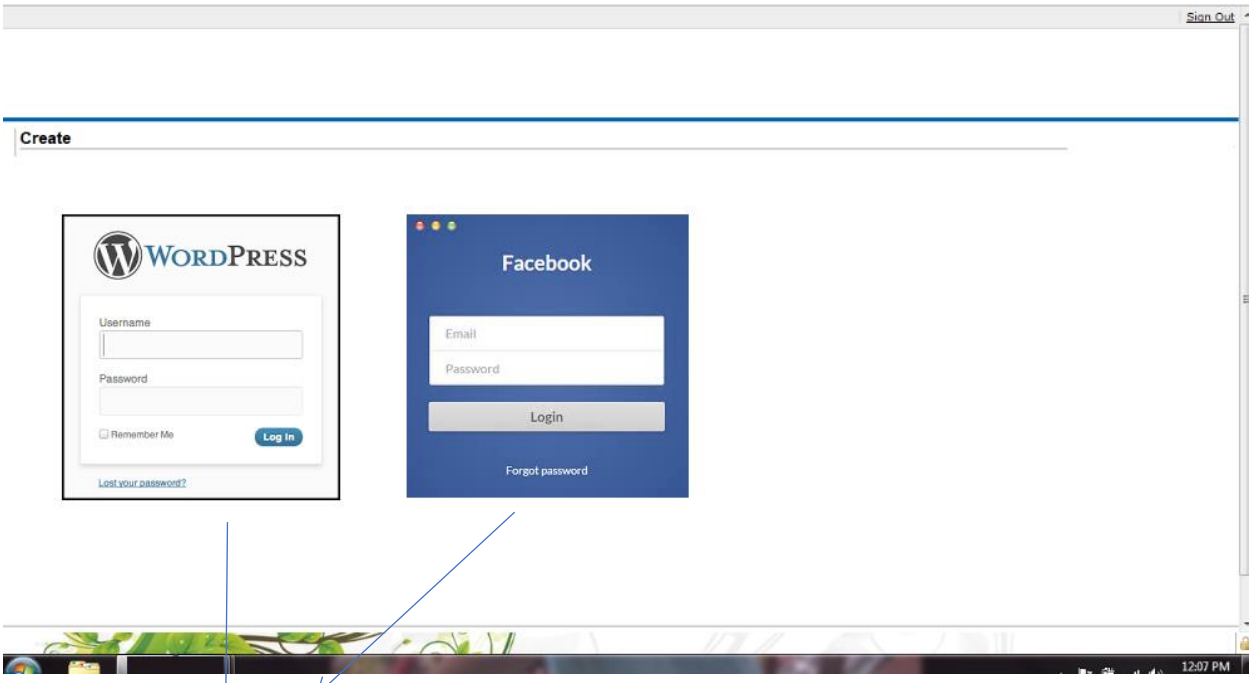
11.USER MANUAL



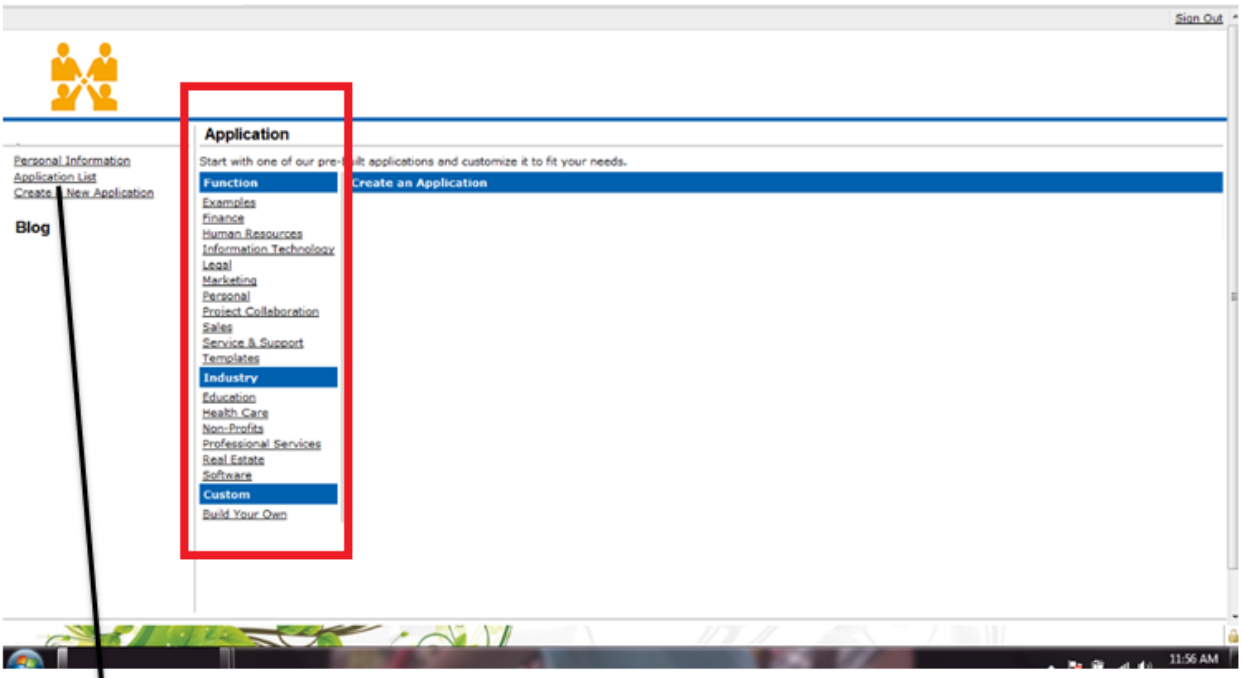
Login page



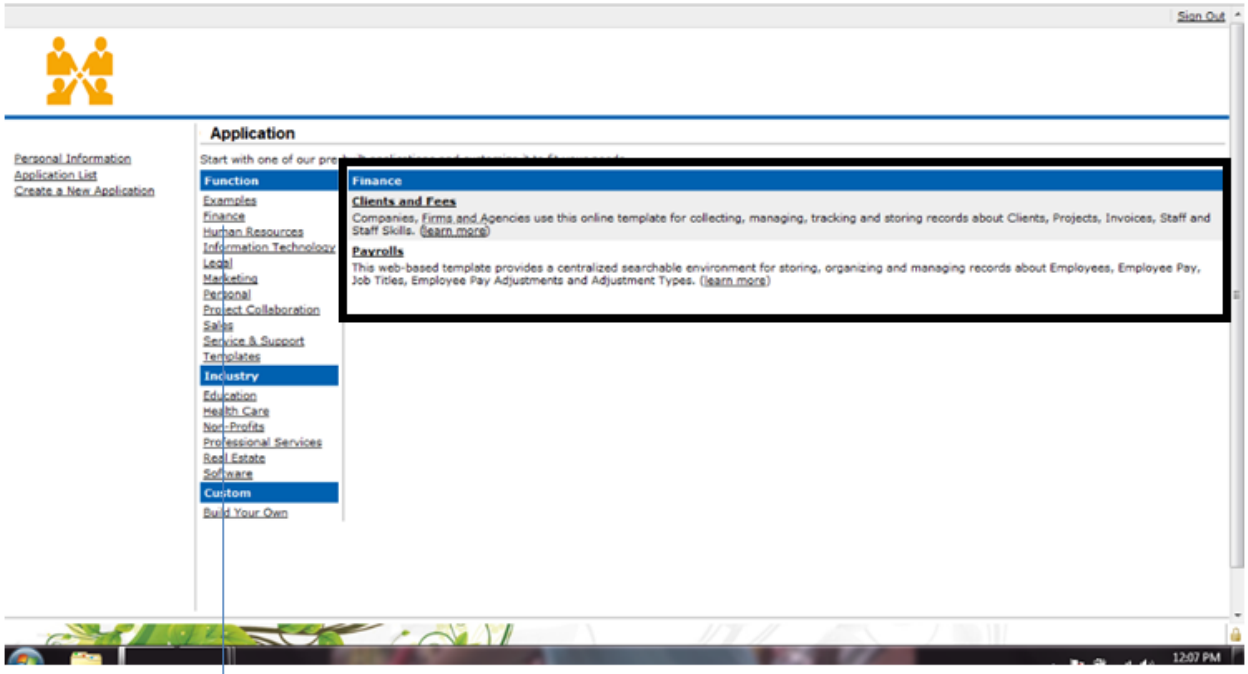
Profile settings and blog integration option



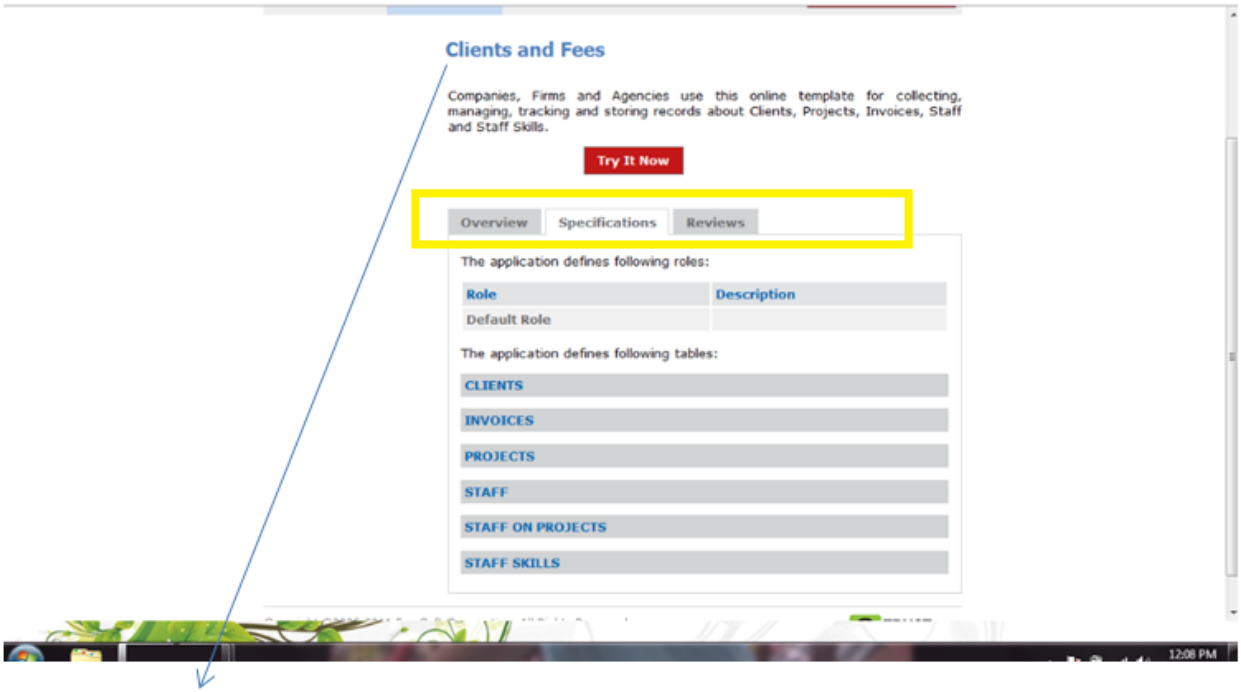
Blog integration options



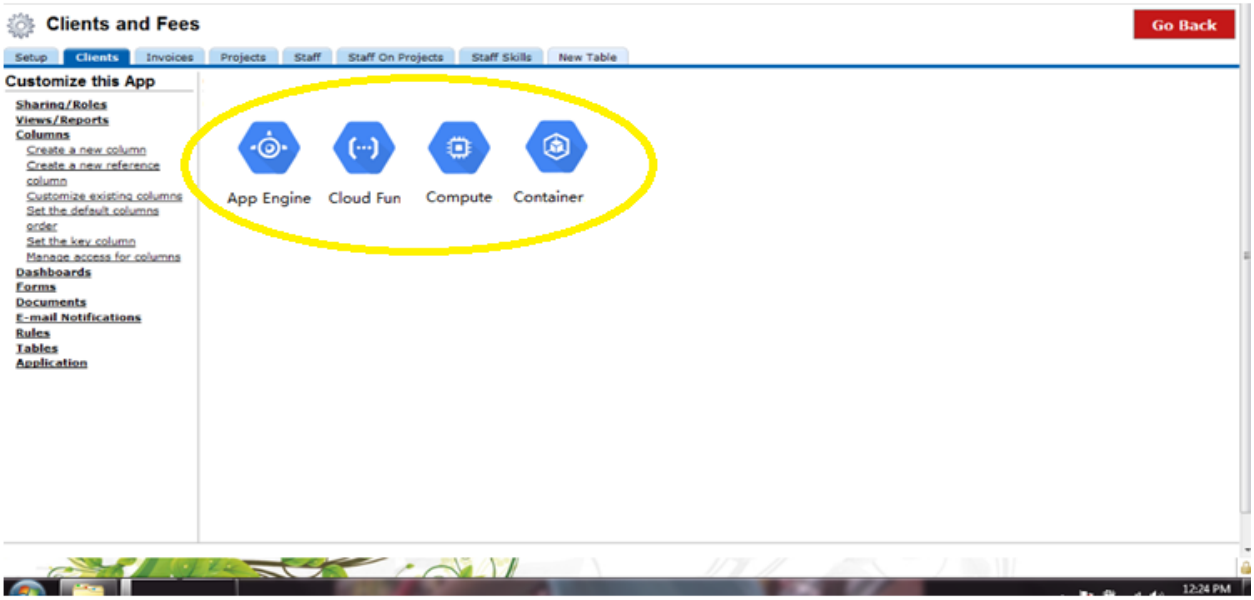
Application list



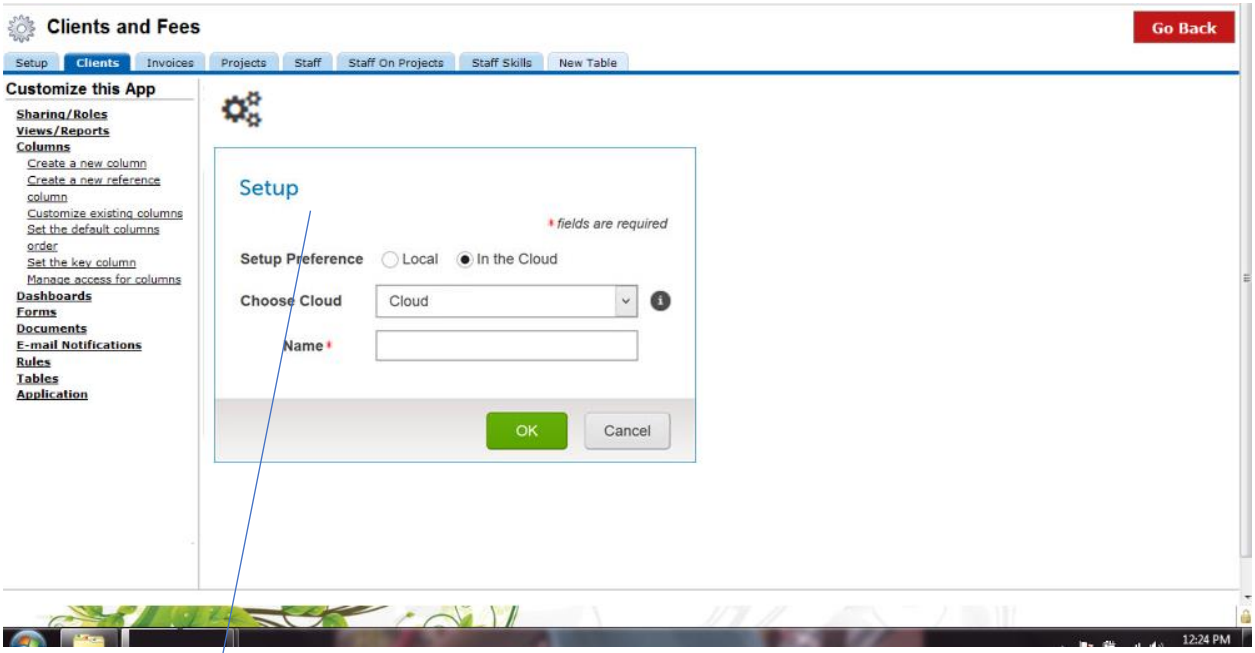
Selective vendor application list shown



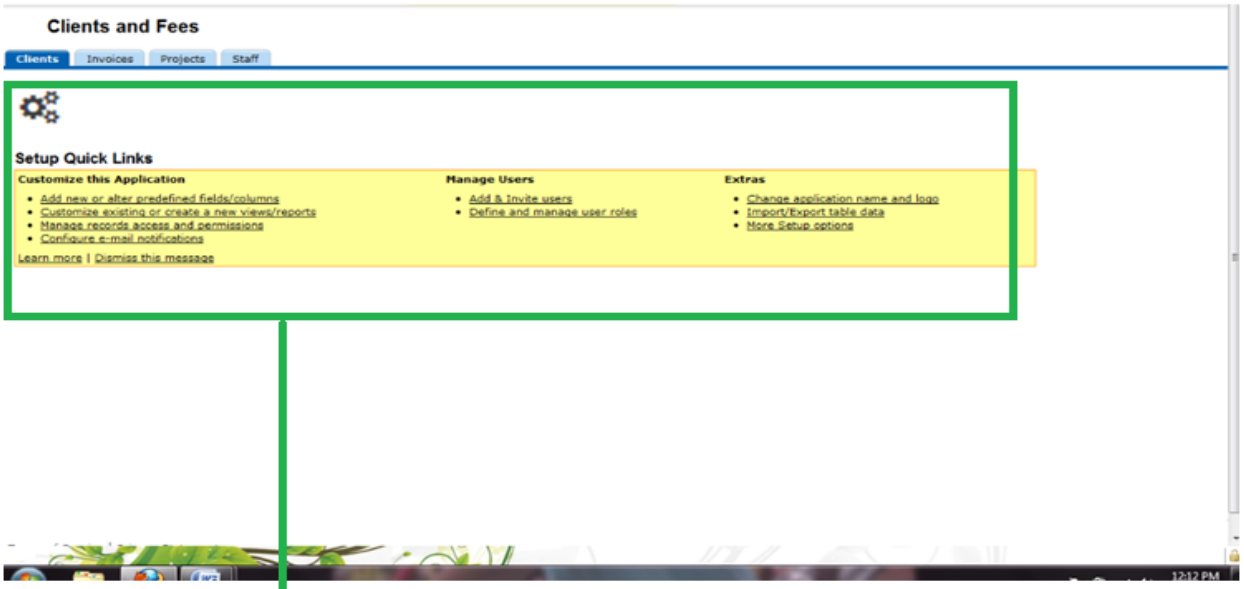
Specification for the selected tool provided



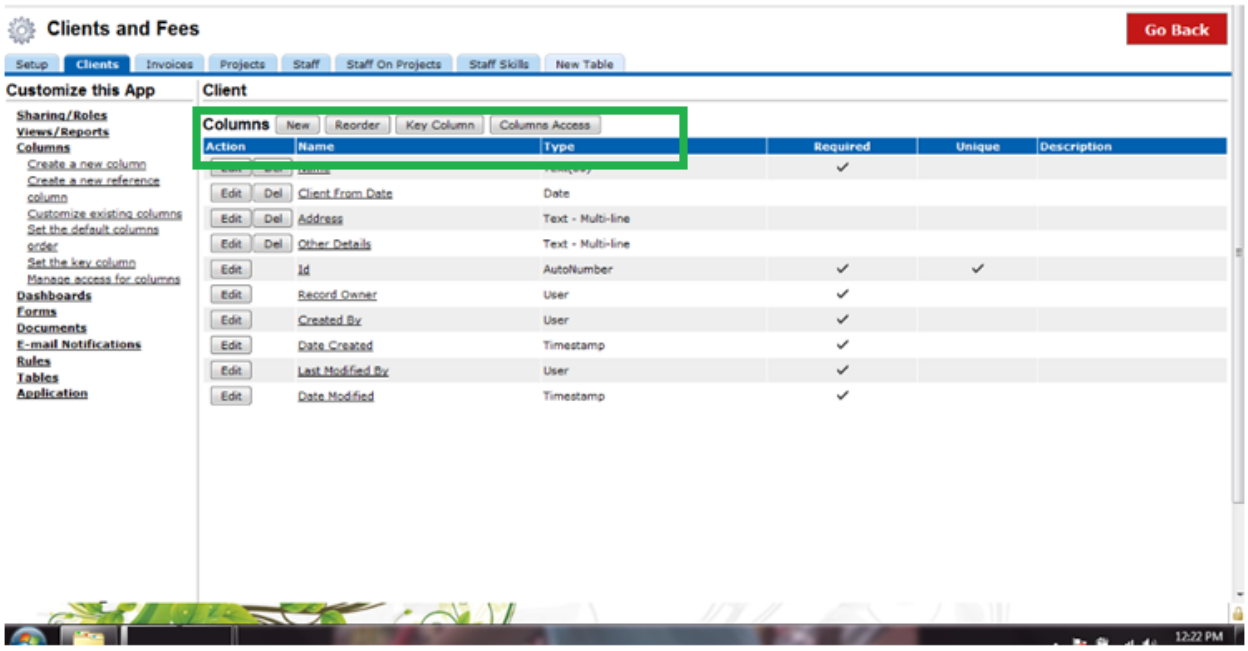
Cloud integration – usage as tool, cloud usage, branding and details usage



Cloud settings is show



Multiple customization options is associated with redirection working



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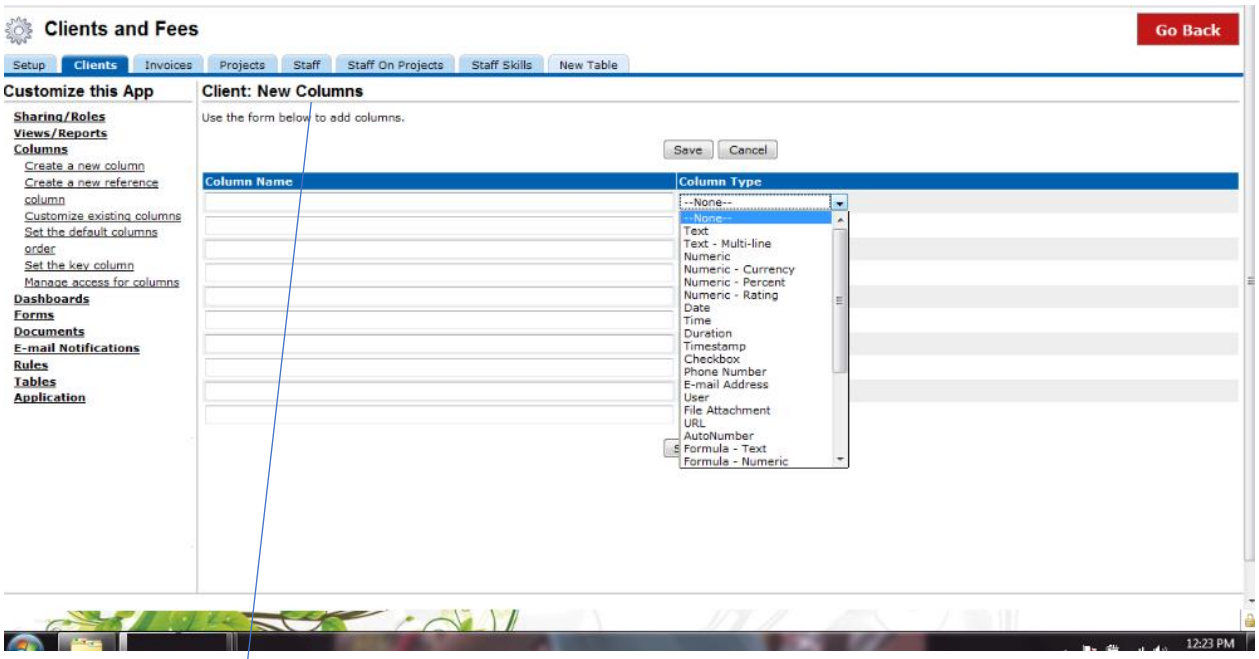
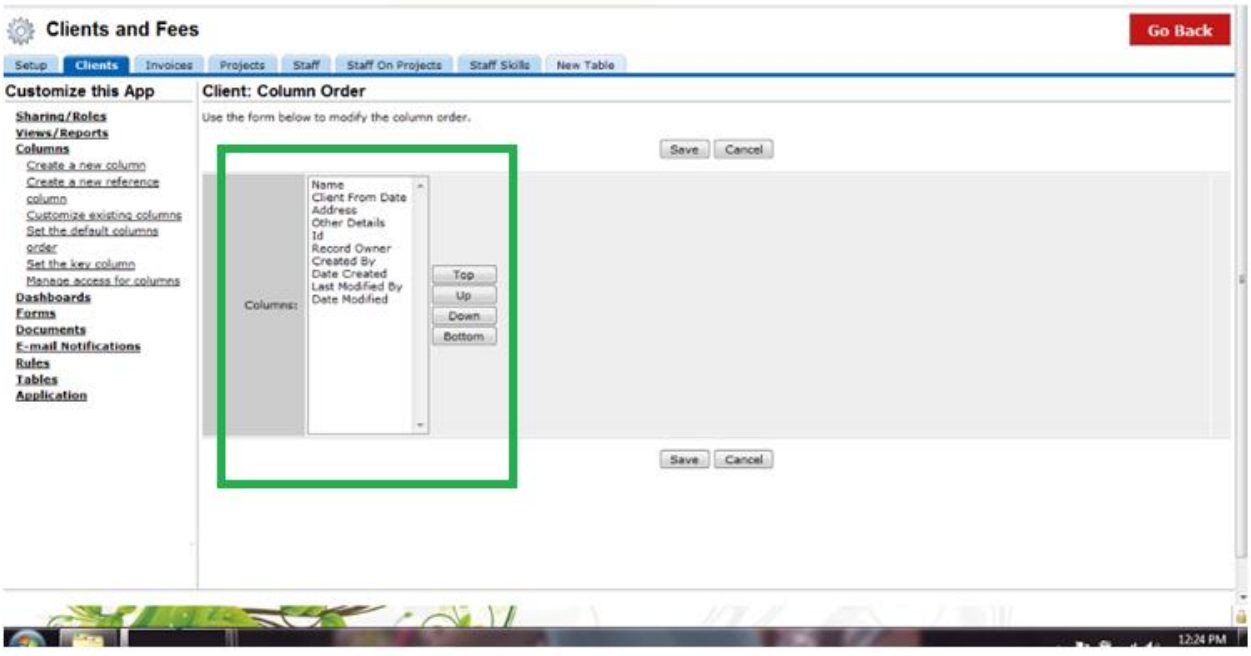


New column design shown



Arrangements